

Manufacturers Record

Exponent America



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BOSTON
UNIVERSITY
Baltimore, Md.
NOVEMBER 1, 1928

God Give Us Men—J.G. Holland.

God give us men. A time like this demands
Strong minds, great hearts, true faith and ready hands;
Men whom the lust of office does not kill;
Men whom the spoils of office cannot buy;
Men who possess opinions and a will;
Men who have honor, men who will not lie;
Men who can stand before a demagogue
And damn his treacherous flatteries without winking;
Tall men, sun-crowned, who live above the fog,
In public duty and in private thinking:
For while the rabble, with their thumb-worn creeds,
Their large professions and their little deeds,
Mingle in selfish strife,—lo, freedom weeps,
Wrong rules the land, and waiting justice sleeps.
God give us men: Men who serve not for selfish booty,
But real men, courageous, who flinch not at duty;
Men of dependable character; men of sterling worth;
Then wrongs will be redressed, and right will rule the earth.
God give us men.

Never was this great poem of J. G. Holland's more appropriate than at the present hour, for never was there greater need of courage on the part of men and women alike to break away from party tradition and vote according to their deep and honest convictions, uninfluenced by politicians, by flatteries, or by the bulldozing tactics of those who place party above country.



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Baltimore, Md., November 1, 1928

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Manufacturers Record

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Tremendous Activities of the United States Government—Construction Plans Outlined.

"WELL, this is a billion-dollar country."

Such was the retort by Speaker Thomas Brackett Reed to political criticism which broke forth when Congress first appropriated \$1,000,000,000 for national expenditures, away back in the '90's.

For the current fiscal year, ending June 30, 1929, the

APPROPRIATIONS, FISCAL YEAR 1929.

	Amount
Agriculture	\$139,138,793.88
District of Columbia.....	37,625,208.00
Executive office and independent offices.....	527,593,111.00
Interior	272,656,039.00
Legislative establishment	17,746,893.26
Navy	362,145,812.00
State, Justice, Commerce and Labor:	
State	\$13,955,955.14
Justice	26,759,342.50
Commerce	38,136,960.00
Labor	10,968,340.00

89,820,597.64

Treasury and Post Office:

Treasury	296,392,018.00
Post Office	764,950,042.00

1,061,342,060.00

War:

Military	309,601,568.50
Nonmilitary	88,915,653.00

398,517,221.50

Total regular annual acts..... \$2,906,585,736.28

DEFICIENCY APPROPRIATION ACTS, FISCAL YEAR 1928 AND PRIOR YEARS.

First deficiency, fiscal year 1928.....	\$200,936,947.54
Second deficiency, fiscal year 1928.....	146,018,018.33

Total, deficiency acts..... \$346,954,965.87

MISCELLANEOUS ACTS CARRYING APPROPRIATIONS, FISCAL YEAR 1928.

Miscellaneous relief and other acts.....	\$991,528.95
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Total, regular annual, deficiency and miscellaneous acts..... \$3,254,532,231.10

PERMANENT AND INDEFINITES, FISCAL YEAR 1929.

Agriculture	\$11,010,500.00
Commerce	3,000.00
Independent offices	84,650,250.00
Interior	27,454,000.00
Labor	10,000.00
Legislative	160,800.00
Navy	1,887,550.00
Post office	220,000.00
State	141,233.00
Treasury:	
Interest on the public debt....	\$670,000,000.00
Sinking fund and other public debt retirement funds..	541,623,393.53
Ordinary permanents and indefinites	23,735,737.00
	1,235,359,130.53
War Department:	
Military activities	1,565,900.00
Nonmilitary activities	8,522,230.00
	10,088,130.00
District of Columbia.....	2,720,000.00
Total, permanents and indefinites.....	\$1,373,704,593.53
Grand total	\$4,628,236,824.63

national appropriations aggregate \$4,628,236,824. And who shall say that this is not now a four-billion dollar country? Even to mention such a stupendous figure is to demonstrate that the Government of the United States is the greatest business enterprise in all history. To raise such a sum and to expend it wisely undoubtedly calls for the work of the best trained minds of the country. Theirs is the opportunity for service and accomplishment.

The first point to be noted is that only about \$2,900,000,000 is appropriated for what may be called routine work of the Government, the conduct of the various departments which handle the Government's business. More than \$346,000,000 is appropriated to make up deficiencies for 1928 and previous years, and miscellaneous and relief measures undertaken in 1928 call for nearly \$1,000,000 more. Beyond these are sums pre-specified in past years for annual expenditure in years to come, while treasury financing involving interest payments and sinking fund and other requirements help to bring this "permanent and indefinite" total to more than \$1,370,000,000. Thus, the present Congress has shouldered for the present fiscal year a large burden imposed on it by predecessors, and also much of the money appropriated will come back to the people indirectly.

On the other hand, in its Appropriation laws for 1929, the present Congress has laid up burdens for its successors to shoulder, by authorizing various departments to spend an aggregate of \$290,776,502, for which not a penny has been appropriated, but must be provided in future appropriations measures. For instance, the Department of Agriculture is empowered to enter into contracts for construction of forest roads and trails at a cost of \$3,945,000, maximum. Beyond the \$37,600,000 actually appropriated for its needs, the District of Columbia is authorized to spend \$500,000 for two schools, the money to be forthcoming in the future. The Interior Department may spend \$475,000 more than its appropriation, for St. Elizabeths Hospital, and \$4,000,000 more for roads, trails and bridges and monuments in national parks—this to come from future appropriations also. The Navy Department may go into aeronautics to the extent of \$10,000,000, and other departments may spend \$500,000 for helium production and conservation and \$2,200,000 for coast guard cutters, and so on, all to be provided in future laws.

Thus, the appropriations for 1929 cover deficiencies imposed under bygone legislation, and the present Congress also leaves a foundation of \$290,000,000 for next year's appropriations to make up in the same manner.

After a study of receipts and disbursements by the Gov-

ernment in two seven-year periods, 1915 to 1921 and 1922 to 1928, Harvey S. Chase, a recognized expert, says that his tabulations "are too big to print." During the first seven years, including the war period, disbursements ran to \$46,730,000,000 and during the second period to \$25,250,000,000. The Government accounting system, he comments, is "the best in the world on the stupendous scale of our Government's operations."

Thus, in 14 years, the Government has disbursed \$71,980,000,000, an average of \$5,140,000,000 a year, while in the seven years including the war the average was approximately \$6,680,000,000 a year. For the 14-year period the average was about \$1,483,000 a day.

In construction, Uncle Sam's achievements in the past and plans for the present and future eclipse all building records in history. He irrigates great deserts and drains huge swamps. At present, his interest in flood prevention is intense, and in his plan are involved reforestation, inland waterways and possibly the provision of great reservoirs. Year after year, he extends the inland waterways system and also provides greater and greater channels for seaboard ports. He operates a great merchant marine and he runs a railroad in Alaska. These are only some out of many high spots. And above and beyond these are a thousand and one fields in which he spends hundreds of millions of dollars each year—and into some of which, it may be said, many citizens believe he has no right to intrude.

In the line of public buildings, the Government has acted through Congress to spend a total of \$250,000,000, at the rate of \$35,000,000 a year and, beyond this, \$25,000,000 in the District of Columbia alone, this year. In one appropriation are items aggregating \$16,238,000; in another, \$1,550,000; in still another \$8,732,500, and so on. Ultimately, over \$70,000,000 will be invested in public building construction in the District of Columbia, while no estimate can well be framed for buildings outside the District in the coming decades.

Not only do these projects involve direct employment of thousands of men on construction work, but they provide steady work indirectly for other thousands in scores of industries. Out of the mines must come ore for the fabrication of iron and steel and out of other mines must come coal for the same purpose. Lumber camps must cut timber, to be fashioned by carpenters and machine shops. Materials for glass for thousands of windows must be forthcoming and be manufactured into the finished product. Railroad men are required to handle trains involved in the transportation of structural parts, and motor trucks and horse-drawn vehicles must be furnished. Such money, running progressively into hundreds of millions of dollars, furnishes employment for many thousands of men and women, and filters back into the pockets of the taxpayers throughout the land.

Some idea of the magnitude of individual projects may be gained from information that the new Department of Commerce building in Washington will be five city blocks long and two blocks wide and will run eight stories in height. Other buildings of proportionate size to be erected in the national capital have been described in detail in the MANUFACTURERS RECORD.

Similarly, probably \$10,000,000 will be spent by the War Department in construction of barracks and quarters and other buildings.

Estimating past expenditures for flood control at \$292,000,000, the present Congress has authorized further appropriations of \$325,000,000 for this purpose, of which \$14,000,000 actually has been appropriated for flood control on the Mississippi River and its tributaries in this fiscal year. An emergency fund of \$1,000,000 for such work on the tributaries alone also was appropriated.

To aid the States individually in the construction of good

roads, Congress has authorized the expenditure of \$75,000,000, with \$75,000,000 more for the fiscal year ending June 30, 1930, and \$75,000,000 for the year thereafter. For forest roads and trails, \$7,500,000 is appropriated or authorized for the same three years.

"For the preservation and maintenance of existing river and harbor work, and for the prosecution of such projects heretofore authorized as may be most desirable in the interests of commerce and navigation," and so on, Congress in the War Department bill has appropriated \$55,886,310, while further it has appropriated \$605,000 "to pay the city of Miami as part reimbursement of the \$1,605,000 advanced or loaned to the Government by said city for the improvement of Miami harbor." Another "reimbursement" appropriation is to repay \$1,500,000 "contributed by local interests to the Mississippi River Commission," for work at the time of the Mississippi flood, last year.

Such are some of the great projects of the United States Government.

In smaller items, the wide range of the Government's activities is surprising. For instance, \$386 is appropriated as America's proportion of the expense of maintaining a lighthouse in Morocco, "including loss by exchange." A sale and exchange of one passenger automobile for the District of Columbia is not to exceed \$475. Books for United States district attorneys, marshals and court clerks are not to cost more than \$12.50. Appropriations are made for cemeteries and for national parks; for carrying pupils to and from sessions of the Indian public schools; for the care of lepers on the island of Guam, and \$500 for "the International Commission on Annual Tables of Constants," and so forth.

The publication of "the final ascertainment of the electors for President and Vice-President of the United States" appears in the appropriations at \$2000, "or, so much thereof as may be necessary."

The United States is a four-billion-dollar country engaged in a wide range of interests, the greatest business organization of any nation in all time. Properly to conduct a business enterprise of such magnitude, in which the people are the stockholders, the Nation must have an executive and a board of directors as Department heads, all of highest type in every way. Unlike great private business corporations, the Government "board of directors" does not elect the president; the president of this concern is elected by the people and appoints the directorate, or Cabinet. Thus, in the quadrennial national election, the people have a dual opportunity and a dual responsibility; they cannot elect their directorate and leave to that body the responsibility of electing the executive.

Every four years, the two great political parties in which probably a large majority of the people are respectively aligned offer candidates for the presidency of this great corporation, to handle its business and to name the directors to help him. Because of the wide range of the corporation's business activities, this executive should be a man of broad knowledge and experience, not only of domestic affairs but of world conditions. Huge building and flood control and similar projects demand an engineer. Co-operation with agriculture and other industries demands a man familiar with industry in a hundred ramifications. International business relations demand a man of international knowledge and acquaintance and experience. No provincial, in these days, can measure up to the requirements for executive in this prodigious corporation.

The people this year are fortunate in the candidacy of a man who meets the specifications. And the people of the South, above all other sections, should vote to place Herbert Hoover in charge of their great business enterprise.

"Can a Republican Be a Friend to the South?"

UNDER the above heading a leading North Carolina paper published a letter in its Open Forum in which the position was taken that it is impossible for any Republican to be a friend of the South. Such a statement would be too asinine to note if it were not for the fact that throughout this campaign, which in many respects is one of the most vicious in the history of the country in denunciation, many Democratic speakers in the South and elsewhere have assailed the Republican party as though from top to bottom it was rotten to the core, and could not in any way whatever be a friend to the South.

The time has come for all sensible people to call a halt to such wild denunciations as many politicians have this year put out against the Republican party.

The evils of the Civil War and Reconstruction days have long since passed. The governors of nearly every state in the South in recent issues of the MANUFACTURERS RECORD have told of the wonderful progress of their states. Glowingly they have pointed out the enormous advance that is being made in material and educational affairs. Surely if the Republican party had been as great an enemy of the South as many political demagogues have been claiming, this section could not have advanced as it has done, even though individual states were under the control of the Democratic party, for these politicians have claimed that the election of the Republican ticket would be a disaster to the South even though all State Democratic tickets were elected.

It should be borne in mind that a party is composed of the individual units which belong to it, and remembering the fact that the majority of the people of this country have for many years, with a few exceptions, preferred the Republican to the Democratic party, these Republican haters must of necessity think that a large proportion of the American people are rotten-hearted in every respect, or else belie their own words.

Not for a moment would we presume to acquit thievery in either party, for thieves are no respecters of parties; but to assume that the Republican party as a whole is bad and is inimical to the South, and that its success in the coming election would be injurious to this section, demands of every honest-minded paper a few facts to prove the contrary.

When William McKinley died he had so completely demonstrated his love for the South that the people of that section mourned his death just as fully as did the people of all other sections. Taft was beloved in the same way, and is still honored and esteemed, as was McKinley, by the people of the South. Roosevelt, the impetuous, the daring, the doer of things, made, as we all know, some serious mistakes; but no one can possibly deny that he rendered to the South every possible service that he could with the exception of making two or three mistakes, which he fully recognized afterwards. His enthusiasm for the South, however, was so great that he broke the tradition that the President must not give an interview, and he furnished to the MANUFACTURERS RECORD, through Mr. T. G. Bush, a leading business man of Birmingham, a warm friend of Mr. Roosevelt's, an enthusiastic commendation of the South and of its future. Mr. Roosevelt himself revised the proof of that interview. Though he knew that the building of the Panama Canal would enormously enhance the commerce of the South, Roosevelt never for a moment hesitated on that account.

When President Harding died, memorial services were held

not only in the North and West, but throughout the South, paying tribute to him as a President who had sought to do justice to the whole country; and the South mourned his death as it mourned that of President McKinley. That later developments showed that President Harding had appointed some unworthy men was never regarded as other than mistaken judgment in trusting to the character of men whom he believed to be honest and honorable. Other Presidents have made some unworthy appointments, just as religious organizations, great business concerns and individuals often do, through mistaken judgment of the character of men.

President Coolidge in his recent magnificent speech at Fredericksburg paid to the South a more glowing tribute as to its part in the building of this nation than any other one man has ever done, so far as our reading goes. The MANUFACTURERS RECORD has through its whole existence sought to arouse the nation to a realization of what have been some of the achievements of Southern men since the very founding of this Government. But President Coolidge condensed into one brief speech an overwhelming array of unanswerable facts as a tribute to the South.

It was by the unanimous vote of Congress, with the approval of President Coolidge—Republicans in the Senate and House voting in favor of it—that the bill for spending hundreds of millions of dollars was passed for safeguarding the flood situation in the Mississippi Valley. Had the President or the Republican members of Congress been opposed to the advancement of the South that bill could have been blocked; but instead it was enthusiastically passed, and all the development which will come to the South through the vast expenditures thus to be made can be credited to the party then dominant in Congress and to a Republican President.

Let us be fair in studying these matters, seeking to learn the truth regardless of the bitterness of partisan politics in the present campaign; and we believe that every honest-minded Southern man who will study the situation will be compelled to say that from the Democratic presidential candidate down to the lowest political offices, their vituperation and vicious assaults have given to the Democratic party the discredit of having done more mud-slinging, pure and simple, than any preceding campaign for 50 years developed.

"Can any Republican be a friend to the South?"

Turn from these facts to the consideration of a few things achieved for Southern upbuilding by Republicans from other sections.

Henry M. Flagler, a Republican, spent between \$75,000,000 and \$100,000,000 of his own money in turning the wilderness of the East Coast of Florida as it then existed into a veritable paradise or Garden of Eden, and did for that state what few other men have ever done for any individual state.

C. P. Huntington, a Republican, made possible much of the enormous development and prosperity of the Texas of today when he built the Southern Pacific Railroad, stretching across that entire state from the Mexican border to the sea coast. Mr. Huntington built the Chesapeake and Ohio Railway to Newport News, selecting that spot on which to build a big city; and then he created the shipyard which was and is today the greatest shipbuilding concern in America.

H. E. Huntington, also a Republican, and the nephew of C. P. Huntington, was the builder for his uncle of the Chesapeake and Ohio and fell heir to the ownership of the shipyards at Newport News, and stood by that organization through good times and bad.

E. H. Harriman, a Republican, bought the Illinois Central

Railroad, enormously developed its facilities for traffic, carrying forward the great work done by Stuyvesant Fish of a famous Republican family; and the work Harriman accomplished has gone on expanding ever since to the enormous progress of much of the South, by reason of the energy which Harriman threw into its upbuilding. Harriman also bought the Central of Georgia Railway and told the people of that state that if they would not hamper him by adverse legislation he would rebuild that line in such a way as to show to Georgia what a real railroad was. The present magnificent condition of that line is merely an expansion or further development of the work suggested by Harriman.

Henry H. Rogers, a Republican, built the Virginian Railway from the coal fields of West Virginia to tidewater at Norfolk; building it on such low grades and in such a superb manner that it has been regarded as one of the best constructed roads in this or any other country. Rogers believed that there was room for a new trunk line and he planned to extend that road from West Virginia to the Lakes, but his death made that impossible. The Virginian, however, has been an enormous factor in the development of the coal regions of West Virginia and of the trade of Norfolk and the whole Hampton Roads district.

John D. Rockefeller, who has given millions on top of millions to Southern educational work, is a Republican. He furnished the millions necessary for fighting the hookworm in the South, and thus brought back to health tens of thousands of people. John D. Rockefeller, Jr., also a Republican, is spending \$5,000,000 to restore Williamsburg, Va., to its old Colonial condition, to the great gratification and gratitude of that state. It is a wonderful piece of work, which will stand as an enduring monument to him through all time. He is also spending vast sums, some say ultimately as much as \$5,000,000, in developing the Yorktown situation into a great national memorial. And for these things the people of Virginia are profoundly appreciative.

Probably more than \$100,000,000 has been put by the United States Steel Corporation into one of the greatest steel plants in the world, that of the Tennessee Coal, Iron and Railroad Company of Alabama. The purchase of that plant and its development has marked one of the greatest strides ever made for the advancement of the South. Its value to this section can never be estimated. The purchase and development of that property was made by the Steel Corporation on the advice of the late Judge Gary, a Republican, but an enthusiastic advocate of Southern development, and a friend known far and wide for his admiration of the South and for his work for its advancement.

His successor, James A. Farrell, who is carrying on Judge Gary's work in the same broad spirit, and who was president of the company during the greater part of Judge Gary's chairmanship, is like Judge Gary, a Republican, constantly forwarding the work of the development of the steel interests of Alabama.

George F. Baker, a Republican and one of New York's foremost bankers, who has largely assisted in placing many millions of Southern securities, has been an unceasing friend of this section.

Andrew W. Mellon, Secretary of the Treasury under President Coolidge, has been a heavy investor in coal interests in Kentucky and West Virginia, and with his brother was founder of the Mellon Institute for Individual Research which was responsible for causing the Union Carbide Company to turn heavily to Southern development. Mr. Mellon has been responsible for the investment of many millions of capital in North Carolina and Tennessee in the development of vast water powers and the building of aluminum plants, and in the development in Arkansas of bauxite properties for the raw material for these aluminum interests.

The Philadelphia people, nearly all Republicans, who

extended the Norfolk and Western Railway many years ago into the Pocahontas coal fields, and developed the coal traffic on that line, enormously expanding the commerce and trade of Norfolk, showed their unceasing interest in the prosperity of the South.

Shortly after the close of the Civil War, General John T. Wilder, who had been in command of a part of the Union Army in the battles around Chattanooga, moved to the South, built the first coke iron furnace ever constructed in this section, and later on planned the building of the Charleston, Cincinnati and Chicago Railway, now the Clinchfield Line, and induced Boston capitalists to invest several million dollars in that enterprise.

Another Republican, E. J. Berwind, of Berwind, White & Co., one of the foremost coal mining interests of the country, has developed great coal properties in West Virginia and Kentucky to the immeasurable good of those states.

New England people have put hundreds of millions of dollars into cotton mill development of the South. Over thirty years ago the editor of the MANUFACTURERS RECORD conducted a committee of five from the Arkwright Club of Boston, an organization of cotton mill men, on a tour of the South to show them the advantages of this section for that industry. William C. Lovering, a Republican, then president of a big mill at Lowell, and afterwards a member of Congress, was chairman of that committee. He was an enthusiastic advocate of the character of the cotton mill operatives of the South and of the advantages of this section, and never failed to prophesy without stint as to its great future. Following that trip five mills, each costing \$1,000,000 or over, were built by the companies represented by these five men, Mr. Lovering heading the list with a mill at Lynndale, Ga.

A large proportion of the New England men who have invested in Southern cotton mills and other Southern industries, adding enormously to the prosperity of much of the South and showing their friendship for this section, are Republicans. But why continue to attempt to enumerate the names of thousands of Republicans who have been tremendous factors in the upbuilding of this section? Their name is more than legion. But let us mention just one more as typical of thousands of others.

There was probably never a more ardent Republican than Hon. William D. Kelly of Pennsylvania, known for many years as "The Father of the House of Representatives." In 1886 he traveled over much of the South and wrote for this paper a series of enthusiastic articles about the iron possibilities of the South, the sugar making resources of Florida, commending as he then did the splendid work of Hamilton Disston, a Republican of Philadelphia, who was seeking to drain a portion of the Everglades and start a sugar industry, praising many other phases of Southern development, and inducing his son to establish an industrial plant in Tennessee. It was Judge Kelly who wrote for this paper the motto which it carried for many years, "The development of the South means the enrichment of the nation." Broad patriotism was voiced in that expression; broad patriotism and profound admiration for the South and its possibilities ran through every letter written by Judge Kelly; and his position in the world at that time was so high that the Associated Press sent more than 1,000 words of each letter to all the leading daily papers of America.

In 1889 the MANUFACTURERS RECORD published a special edition devoted to the wonderful progress then under way in the South. In that issue the story of Southern poverty following the war and Reconstruction was told, and an outline of some of its achievements was presented. Copies of that paper were sent to every member of President Harrison's Cabinet, and without exception every member wrote an enthusiastic expression of appreciation of the progress which the South was making and wished it God-speed for the future.

Following the presidential rule of not writing for any paper, President Harrison did not present his views, but his secretary, E. W. Halford, wrote on his behalf an appreciation of what the South was doing.

We have thus summed up a few of the many evidences which come to mind of ardent Republicans in public and private life, who have looked upon the South as a part of America, who have heartily co-operated in its development, and have added billions of dollars to its prosperity. Under these circumstances why should there be such a bitter feeling on the part of politicians against individual Republicans and the Republican party because of the venom shown by some South-haters after the assassination of Lincoln succeeded in bringing about Reconstruction with all of its evils? These men are all dead long ago. The South should not be the land of hatred. It should not be the power of its politicians, who seek to retain control of the political machines, endeavor to arouse once more the long dormant spirit of the hate of Civil War days.

We of the South have boasted of our love of the American flag, the flag which the South made possible; of the country which the South, even by the testimony of President Coolidge, made possible. Is it not time for us, therefore, to put aside some of the animosities of the past and seek to bring peace and harmony to this nation, that it may go forward in the great work for which the Almighty seems to have destined it? Why should this section, which fully realizes the need of prohibition, which knows the good that has been accomplished and knows that still greater good will be accomplished if our prohibition laws can be maintained, because of the hate born of Civil War days fight viciously for the election of a man who has constantly proclaimed his opposition of our prohibition laws, his determination if possible to have them modified and who with that object in view appointed as the manager of the Democratic campaign committee a Republican, who accepted the position for the express purpose, as he said, of trying to help save the country from the "damnable affliction of prohibition"?

Let the South cease this venomous attack on everything and everybody that refuses to bow down and worship the idol of party fealty and Governor Smith, the real bolter from the Democratic party.

GERMAN RAILROAD ADMINISTRATION OPPOSING STRONG DRINK FOR EMPLOYEES.

A DISPATCH by the Associated Press from Berlin gives the following interesting information as showing how the movement for Prohibition is spreading throughout the world:

"The Federal railway administration has ordered that milk markets be installed at strategic points to enable railwaymen to quench their thirst. The administration will soon send out a special train to show the workers graphically the injurious effects of drink and the necessity for abstinence. In a letter to employees the administration stated that in view of attempts to improve the speed of trains it was absolutely essential that workers be sober."

WHICH DO YOU PREFER?

A LEADING manufacturer of Reading, Pa., said to the MANUFACTURERS RECORD a few days ago that he overheard two of his workmen out in the yard disputing as to Smith or Hoover. The Hoover man finally said to the other, "Why are you going to vote for Smith?" The answer was, "Because I want my whiskey."

The Hoover man replied: "Well, I am voting for Hoover because I want my bread."

A NEW SLANT ON GOVERNOR SMITH'S POWER PROPOSAL.

AN interesting angle of Governor Smith's power proposals is suggested by H. C. Morris, an engineer and economist of Washington, D. C.

It will be recalled that Governor Smith proposes that dams and hydro-electric power plants should be built at the cost of the taxpayers, and the plants leased to private corporations for distribution of the power. The Governor's argument in favor of putting the government into the power industry in this fashion is that the people should retain ownership of these valuable natural resources in order to retain control and prevent a dangerous monopoly of the industry by a "power trust." A question has naturally arisen as to why, if the government should build the generating stations, it should not also build and operate the distribution systems, thus completing the job. Mr. Morris puts together some well-known facts, and draws a conclusion that is worth careful thought.

First, the initial cost of a hydro-electric station is so much more than that of a steam station that unless the hydro-site is peculiarly favorable, or the price of coal in that locality is unfavorable, the chances are that in the long run the steam station will prove more economical. In some localities the cost of operating a steam station is actually less than the cost of operating a hydro station where the interest on the investment in the latter is included, as of course it must be.

Second, the cost of hydro stations tends to increase because of the increasing value of the large tracts of land that must be bought, while no compensating advantages can be hoped for in much greater efficiency of design or operation. By contrast, very rapid improvement is being made in the design and operation of steam stations, and large improvements are expected during the years to come. If the cost of power from steam stations today compares favorably in many localities with that from hydro stations, the present trend will soon give steam a decided advantage over water-power. The great power companies have known this for several years, and much has been published on the subject. It is known, by those who have been in close touch with power interests, that dam sites which were considered excellent a few years ago are not now regarded with favor.

Recalling these facts, Mr. Morris links with them the following:

"The power companies are hesitating, in view of that situation, to tie up capital for a fifty-year period. The thing that would please companies in a position to make the leases would be to have the government provide the structures and take all the risk.

"Some surprise has been expressed that Governor Smith did not go all the way and include distribution of the power in his scheme, but this probably would have affected seriously the interests of his chief backers—Nicholas Brady, John D. Ryan and Owen D. Young."

The question suggested by this logical linking of facts is whether Governor Smith's tender solicitude for the taxpayers in this matter is really what it seems, or whether he is working both ends for his own advancement by leading the unsuspecting taxpayer to assume risks that should properly belong to private industry, while the corporations stick to the safer plan of distributing the power generated.

We have always insisted that private industry, because of its greater efficiency and initiative, should be permitted to develop natural resources; we also insist that private industry should assume the risks that go with all business ventures.

SOME GUIDEPOSTS ALONG THE SOUTH'S BUSINESS WAY.

SIGNIFICANT is the information given in a recent advertisement of the Southern Railway System which appeared in the MANUFACTURERS RECORD when it announced that \$80,000,000 had been expended for new equipment alone by this one Southern organization in the past few years and, as the South's growth continues, the Southern Railway System is constantly anticipating its needs by the purchase of additional equipment. Multiply this by the investments for new equipment made by other great railway systems, not to mention the vast amounts expended for construction and repairs, and the purchase of new equipment and expenditures for new construction by other business interests in the South, and one may be able to grasp something of the magnitude of the buying power of the Southern States.

In another advertisement in the same issue the Duke Power Company emphasizes conditions favoring the stability of earnings to be found in the South. Charts of identical operations turning out identical classes of products show that labor and overhead represent 39 per cent of the cost of the finished goods in the South as against 42 to 45 per cent in other sections of the country.

Roanoke gives facts as to why it has been enabled to double its population during the past 17 years; Chattanooga tells of the attractions and advantages of its community which has now reached a population of 150,000; Atlanta presents its industrial opportunities; while Chuluota, Fla., explains its advantages for a diversified farming development.

In inviting industrial developments to South and Southwest Texas, the Central Power and Light Company describes the forward movement of commercial and industrial progress which is daily gathering momentum and points out that its many resources are still virtually untouched and offer possibilities for future development.

An advertisement of the Tennessee Electric Power Company cites the specific case of the Magnet Knitting Mills, Inc., which has been so successful, along with others of a similar character, in the production and distribution of full-fashioned hosiery made by Tennessee labor. And of this labor there is an abundant supply for a growing industrial development.

The Alabama Power Company takes the theme of a single industry for one of its advertisements, giving reasons why the South favors the paper industry, pointing out Alabama's advantages in particular.

The foregoing samples of some of the guideposts along the South's business way are among the hundreds which the MANUFACTURERS RECORD each week places before its readers as a guide to investors, and makers and distributors of products of every kind.

DR. GRENFELL ON DRINKING IN CANADA AND THE UNITED STATES.

Dr. Wilfred T. Grenfell, the revered physician and missionary of Labrador, speaking in the United States recently said: "I saw more intoxication and more of the ill results of intoxication during the short time I was in Winnipeg, Montreal, and Toronto, than I have seen in the United States in six months. In Dallas, Texas, I met something like 10,000 superintendents of public schools, and the large majority of them were in favor of Prohibition. I have seen tens of thousands of American children, especially in the West, who have never seen liquor used as a beverage. A young generation is growing up that will not want it."—*Watchman Examiner*.

And yet Governor Smith wants us to adopt Canada's liquor system.

OUR IMMIGRATION LAW A RESTRICTIVE MEASURE TO PROTECT AMERICAN IDEALS AND INSTITUTIONS.

GOVERNOR SMITH said in his Nashville address that there was no issue between himself and Mr. Hoover on the immigration question. In his acceptance address Governor Smith said "I am opposed to the principle of restriction based upon the figures of a census 38 years old. I believe this is designed to discriminate against certain nationalities and is an unwise policy."

The Governor was entirely correct in surmising that the restriction plan based on the 1890 census was designed to discriminate against certain races. It most emphatically was. It was designed to discriminate in favor of the races whose hardihood pioneered this nation, the races which developed through past ages the social and political systems with which we started and upon which we improved; the races that, by reason of blood kinship, similarity of temperament and habit of life, are most readily assimilated into our national life. As Governor Smith "believes," it was emphatically designed to discriminate against those races most alien in blood, in age-old training and tradition, to the life of this country. It is the people of these races that have poured into this country most freely since 1890—or since this country, by reason of its early vigor, became the mecca for all peoples not making satisfactory livings at home.

Should we base our immigration quotas on the census of 1920, and later on that of 1930, as Governor Smith evidently desires us to do, we would admit hordes of those foreigners whose living standards are of the lowest and who, therefore, will work for wages on which American labor cannot live. We would admit foreigners whose traditions have taught them a deep and abiding hatred of constituted authority and who have no slightest intellectual equipment for understanding American ideals and methods.

Governor Smith is right in believing that we desire to discriminate against these people, but he is totally wrong in saying that on this point there is no issue between himself and Mr. Hoover. The Republican candidate is alive to the dangers of an invasion from Southern and Southeastern European countries, whose inhabitants can never measure up to American ideals, and Mr. Hoover has not advocated the lowering of any restrictions on immigration of this character.

A BALTIMORE BANKER WHO OPPOSES PROHIBITION SAYS PROHIBITION IS MAIN ISSUE IN THIS CAMPAIGN.

WALDO NEWCOMER, a leading banker, in an address before the Democratic League of Baltimore a few days ago, said:

"You will hear people say that even if elected Smith can do nothing about the Prohibition Amendment, because the matter is up to Congress, where the dries are in the majority. That is true, but if Governor Smith recommends to Congress an appeal, a law or an amendment, that has the backing of his Administration, you will find that Congress will give it considerable attention."

As Mr. Newcomer is an ardent wet and vigorous fighter against Prohibition and a vigorous advocate of Governor Smith's election, he ought to know something about what this campaign means. He says Prohibition is the chief issue. The MANUFACTURERS RECORD has taken that position from the beginning of the campaign, and holding directly opposite views to those of Mr. Newcomer on this question we have opposed Governor Smith on the Prohibition ground.

Growing Opposition to General Jadwin's Flood Control Plan.

EVIDENCE comes to us from many sources of a rising flood of opposition to the Jadwin plan for controlling the Mississippi River. General Jadwin has seemed possessed of a singular talent for exciting opposition. To many people interested in the subject he has appeared autocratic and arrogant to an extreme degree. Thus when the Mississippi River Commission, charged by statute with responsibility for preparation of plans for control of the river's floods, prepared a plan of which General Jadwin did not approve the General, so it is said, pigeon-holed it and substituted his own. Congress, hearing that a plan had been prepared by an engineer so able and so experienced in Mississippi River work as the late Colonel Potter, president of the Mississippi River Commission, ordered its submission, whereupon General Jadwin charged that the plan had been "dragged in by the back door."

When an apparently irreconcilable conflict developed between Colonel Potter and General Jadwin as to the merits of the two opposing plans, Congress provided, in the Jones-Reid Bill, for a Flood Control Board to be composed of three men to reconcile the differences between them. It was specified that General Jadwin would be one of the three; it was intimated that Colonel Potter would be one, and the law specifically provided that, although he was about to reach the age of retirement, he could be reappointed to serve on the Board and defend his plan. The intention of Congress on this point was not mandatory but it was unmistakably clear. The third member was to be a civilian engineer without bias for either plan, who would cast the deciding vote where Colonel Potter and General Jadwin could not agree.

The selection of the two men to serve with General Jadwin on that board is a strange thing, as well as an incomprehensible thing to go into the record of the Corps of Engineers of the United States Army. General Jadwin himself selected the two men who would sit with him to decide between his and the rival plan. Colonel Potter was shelved. General Jadwin selected one of his own men, trained in obedience to him, to take Colonel Potter's place, and for the civilian engineer he selected a man who had served under him not only in two wars but on engineering work in a civilian capacity. It is not at all surprising that such a jury discarded the Potter plan and adopted the Jadwin plan in toto. Under the circumstances it seems peculiarly appropriate to call the Board: Jadwin, Jadwin & Jadwin, Autocrats in Flood Control.

However, the real opposition to the Jadwin plan is based upon expert technical advice. Certain large sections of the country believe that for them it contains grave dangers. Illinois fears that the plan for Cairo is inadequate, while Missouri objects to it on the plea that it will lay waste 3000 square miles of rich farm land in the state without giving adequate protection either to Cairo or to other parts of Missouri. On the west bank of the Mississippi River, from the mouth of the Arkansas River to the Gulf, the opposition is fierce and daily growing fiercer as the realization spreads that the Jadwin plan would render 74,000 people homeless and desolate upwards of 10,000 square miles of fertile, populous and prosperous country included within the proposed flood-way in the Boeuf and Atchafalaya basins.

Well-organized and well-founded opposition is active and growing more vocal in the drainage basins of the Arkansas and Red rivers, where a keen sense of outrage and injustice is felt over General Jadwin's attitude. Here the opposition is strongly organized, for the organization to express it is several

years old and has experience and much engineering data on which to base its arguments. A number of years ago the states annually devastated by the floods of the Arkansas and Red rivers formed an interstate compact, appointed a commission and made an exhaustive survey of the two rivers clear to their sources. On the basis of these surveys the engineers worked out elaborate storage systems for flood control. Computing the record-breaking rainfall and discharges of the two rivers during the 1927 flood, it is estimated—and General Jadwin is so reported to have admitted to President Coolidge—that, had the proposed systems been in effect on these two rivers during 1927, there would have been no floods in those rivers that year, and the flood height in the Mississippi would have been reduced four to six feet. With so clear and strong a case for their storage plans it is felt that General Jadwin's refusal to incorporate it in a comprehensive flood control plan, or at least to give it frank public recognition, is a clear indication of his intention to discredit source stream control.

Likewise there are stirrings in the Missouri and Ohio River valleys which, though vigorous, are not yet so widespread as they should be and doubtless will become, for both of these great river systems have much to gain by a comprehensive storage plan to reduce Mississippi floods as far as can be done by headwater storage. Fragmentary surveys of these river basins show good individual storage projects, but have not yet developed any such comprehensive plans as those worked out for the Arkansas and the Red.

Since the tributary valleys that furnish most of the flood waters will also be called upon to furnish so large a portion of the cost of flood control; since a comprehensive plan of flood control would protect the Mississippi Valley after first protecting the tributary valleys, whereas General Jadwin's plan aims to protect only two-thirds of the Mississippi Valley and ignores the tributaries; and further, since these tributary valleys stand ready to supplement Federal funds with special contributions in proportion to local benefits, they feel entitled—and are determined—to have such protection. But so far every one of these sections is fighting independently. There is not yet the co-operation or the comprehensive plan so necessary to the formulation and accomplishment of a great national enterprise.

General Jadwin's flood control board cannot be beaten by scattered attacks. The man who adopted the attitude that he used toward Colonel Potter and toward all the men who have opposed him, and who we think used unfair tactics to discredit the rival plan, will not be beaten by scattered individual attacks. Like Germany in the World War, he is strongly entrenched in a central position, and only concerted action under a supreme command can dislodge him. If all the interests opposed to his plan, from Louisiana to North Dakota and from Kansas and Oklahoma to western Pennsylvania, will unite in one combined drive they may secure a comprehensive plan of development for the Mississippi basin that will include protection alike for that portion of the Valley which these opponents feel would be doomed to perpetual recurrent floods, and for the tributaries he would neglect. No smaller plan of action can succeed.

A GREAT TRUTH.

"IT'S a damnable thing to say that a man's duty to his party is above his duty to his soul."—*Senator Simmons of North Carolina.*

DR. CHARLES H. HERTY WILL CONCENTRATE HIS ENERGIES UPON THE CHEMICAL DEVELOPMENT OF THE SOUTH.

IN the course of a letter to the MANUFACTURERS RECORD Dr. Charles H. Herty, former president of the American Chemical Society, and now advisor of the Chemical Foundation, writes as follows:

"For the past several weeks I have been weighing carefully the question as to whether I should continue in work chiefly national in its character, with only incidental bearing on the South, or whether I should modify this program and place the main emphasis on doing whatever is in my power to aid in the industrial building up of the South, especially the industries directly affected by chemistry.

"I have decided on the latter course, and beginning November 1 I am going to cast my lot with the folks down home. I am going to open a New York office at 101 Park Avenue, and during the next four or five years I shall give the bulk of my energy to this work, dividing my actual time about equally between New York City and my connections in the South.

"Already the trend of the chemical industries is strongly toward the South. The crest of the wave is right now in Virginia and West Virginia. One needs only to travel from Hopewell, Va., westward and through the Kanawha Valley in West Virginia to see this wonderful and very recent development. Nitrogen fixation; rayon; paper; caustic soda; chlorine; refractories; glass; products from natural gas; barium compounds; synthetic organic chemical compounds—and the most of these products are being manufactured from cheap raw materials, by the finest type of labor, in an equable climate. The advance wave of this movement is already being felt, though not so strongly, in the states further south.

"This country is just beginning to awaken to the great natural resources of the South. There are many in the North who are seeking investments, if they can only know that these investments are sound; there are many localities in various parts of the South which possess combinations of raw material and of power which can profit enormously by a wise and experienced development of these natural assets, which until recently have yielded up only a little of their real potentialities.

"I have a longing to try to be of help in bringing these two elements together.

"I shall retain a part-time connection with the Chemical Foundation in order to aid the great work it is doing of an educational character, and especially to aid in arousing public sentiment which will lead to better provision for more intensive research on the fundamental problems of health, especially as they relate to chemistry."

As one of the foremost chemists of America, long identified with many great movements for the development of the chemical industry in this country, this announcement of Dr. Herty is of particular value to the South and, indeed, to the country at large, for the development of the chemical industry in the South is one of the most marked features of the progress of that section.

CHARLES E. HUGHES has said:

**"IF SMITH WERE ELECTED, IT WOULD
TAKE HIM YEARS TO LEARN WHAT
HOOVER KNOWS NOW; - - -"**

Not about one state only, but about forty-eight;

**Not about domestic trade of that state only; but
about the commerce of the world.**

EARLY WORK ON TARIFF REVISION.

IN LINE with an editorial which he cites in the MANUFACTURERS RECORD of October 11, "Protection Must Become a Dominant Issue in Congress," C. H. Boynton, of New York, speaking on behalf of the cement industry, suggests that amendments to the present tariff law by the next Congress should be pre-discussed by the present Ways and Means Committee this winter. Of course, an entirely new House of Representatives is to be elected, but as Mr. Boynton says, "the membership of the Ways and Means Committee changes very slowly and it is quite probable that in the next Congress its membership will be very much the same as in the present one."

As Mr. Boynton further points out, unless tariff revision is accomplished in 1929, it will go over till virtually the eve of a Congressional election in 1930, so in view of the probability that the present Ways and Means Committee will remain virtually unchanged, "it is perfectly proper that this committee in December should undertake the consideration of the structure of a new Tariff Act, hold the necessary hearings and prepare a bill which, when ready, could be presented to a special session of Congress, to be held at an advantageous time next year," without taking needless chances on 1930.

"Naturally, the cement industry has a selfish interest in seeking early relief from duty-free foreign cement competition," says Mr. Boynton, but his suggestion contains arguments of national import. The tariff must be revised upward in many items, for even stronger economic protection of agriculture and many other branches of American industry. Cement is far from lonely in its plea for adequate protection.

The subject should be taken up by those members of the Ways and Means Committee who are re-elected, without loss of time after the assembling of the final session of this Congress, on the first Monday in December. An entire new law may not be needed, but many amendments in the nature of revision upward certainly are in order now.

WHEN THESE THINGS COME TO PASS.

THE American Insurance Magazine says:

"Prohibition will be abandoned when wives enjoy having husbands who spend their pay check in the saloon; when children prefer a drunken, abusive father; when railways decide to employ drinking men as engineers; when life insurance companies consider steady drinkers as better risks than total abstainers; when banks and business corporations advertise for clerks and bookkeepers who are habitual drinkers; when athletes who train on beer and wine beat total abstainers; when superintendents post the sign, 'Tipplers and Drinking Men Wanted,' at the gates of their factories; when credit-men decide to class a 'rumhound' and 'boozer' as a better risk than a total abstainer; when doctors tell their patients that a hard drinker has a better chance to pull through a serious operation than a total abstainer; when great automobile corporations are willing to assist in placing a saloon at every cross-roads, so their customers can get as tipsy as they please and smash up as many cars as possible."

To the Point.

Stiles S. Dixon, A.I.A.,
Architect.

Fayetteville, North Carolina.

Editor Manufacturers Record:

Enclosed find check for my subscription.

We like Al Smith, and also the MANUFACTURERS RECORD very much regardless.

STILES S. DIXON.

[The following which has appeared as an advertisement in the daily papers in support of Mr. Hoover, is so intensely interesting as a piece of literature that we are publishing it as a matter of news about an outstanding American whose life and example are an inspiration to the youth of our land.—Editor MANUFACTURERS RECORD.]

Read This To Your Son.

HE WAS BORN at the foot of the longest ladder that spunk ever climbed.

His father was a Quaker blacksmith, and at ten he was a homeless orphan in a frontier town.

Lincoln at that age, at least had his log cabin, his crust and a mother of sorts. And Jackson still played with toys.

But Herbert Hoover's bankruptcy was complete. Destiny had set him back to zero, utterly impoverished his life, stripped his pockets, his heart, his horizons and left him alone at the cross-roads.

Hoover turned to the *right*—and a *schoolhouse*. He swapped his spare hours for tuition, d'd menial things—hard, blistering chores—snatched study time from sleeping hours, went without comforts, pastimes, vacations—and *went on!* A shabby little boy paying his way through life with the resources of a child's brain and strength, but taking the blows of adversity without a wince or a cry for quarter.

He had lost all that sweetens youth, but he kept all that infibrates manhood. Doubt made poisonous thrusts at his confidence, but never left a wound.

He stayed clean and determined within the armor of inherent character. His memory is scarred with humiliations and deprivations, but in those scars are sealed sympathy and understanding for all of Fortune's *other* step-children.

If you would compare his poverty with Franklin's, please remember that paternal wisdom had *battered* Franklin's penny roll.

Hoover's bread was buttered with table leavings after he had served fellow students at Stanford. He eked out the rest of his college expenses by collecting and delivering university laundry.

He also made such able delivery in class room and laboratory that his Alma Mater has held his record up to student bodies ever since.

He got his degree. Then immediately got a job as pick-and-shovel miner, digging the capital to finance his further career, instead of waiting for Opportunity to call 'round with a pass key.

He married a country girl and took her to Australia. He made *good* there.

Russia needed a man to administer her mismanaged railroads and metallurgical works. And he made *good* there.

China couldn't make her mines pay. But Hoover *did*.

Belgium's rubber plantations required reorganization and reform. And Hoover made them *efficient*.

He became Hoover, the Handyman, the Bungle-straightener, the Hard-nut cracker of trade and commerce. And all the while he was spreading the gospel of American methods, of American thoroughness, of American integrity, through lands where our technicians and producers had not yet established foothold.

The immensity and intensity of those labors are best

measured by the fact that he was not yet forty years old when the Great War broke. The Allied powers could not find among their own nationals an organizer, administrator or engineer equal to the task of filling the bread boxes yonder. But *Hoover* had the capacity.

So they drafted him to battle famine and lead the forces of mercy and human salvage. He fed Allied millions, became foster father of Belgium, gathered the homeless hordes of the continent, and fed and clothed *them*.

History has set apart a golden page to carry the epic of The Orphan Who Lived to Rescue a *Million* Orphans—th's once homeless Quaker lad who came when Chaos called, to glean the waifs of Europe from the fields of holocaust.

He garnered the pitiful harvest from Flanders to Armenia, and his heart did not demobilize with armistice. His missions went into Germany and Austria, even Russia.

He bore the burden of the American Food Administration on one shoulder and the relief of Europe's stricken on the other, until hates and battlefronts were healed. Then, without a breathing spell, turned to the gruelling task of finding peace markets for our war-expanded industries, and put his world-wide experience into Federal harness.

He organized 5,000,000 unemployed men back into their jobs, and he organized export outlet for their product. He showed manufacturers how to adjust their plans and readapt their machinery to new conditions.

He made the Department of Commerce adviser, friend and efficiency expert of trade and manufacture.

He guided American aviation until it found its wings—devised a traffic system, and charted possibility for radio.

British-Dutch monopoly established a corner in crude rubber which might have closed our tire factories. Hoover, the *rubber expert*, smashed the combination and kept the automobile within common purse reach.

He found mills and factories filled with unprotected machinery and procured the widespread adoption of life and limb saving devices. Again the *practical engineer* at work.

He recalled his *own* pick-and-shovel days in the *mine shafts* and waged relentless campaigns against mining carelessness and hazard.

His desk has been the *nerve center* of our economic life. Every fundamental interest of the country has reached there. Problems of inland waterways—problems of conservation—problems of marketing—problems of transportation—problems of flood control, of dairying, of stock breeding—problems of farmer, merchant, and canner, have all been part of the day's work of Herbert Hoover.

He incarnates everything that typifies the Spirit of America; its versatility, its indomitability, its imagination, its humanity. And its independence.

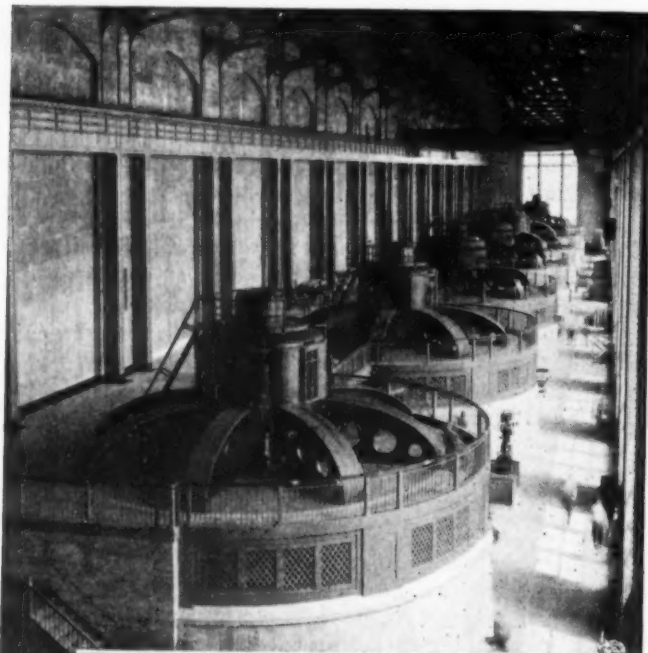
His career is the triumph of character over circumstance.

He has climbed the longest ladder to the last rung.

**The Republican Party honors itself in presenting HERBERT HOOVER
as candidate for President of the United States.**

Second Largest Hydro-electric Plant in Country at Conowingo, Maryland.

The Conowingo Station of the Philadelphia Electric Company is the country's second largest hydro-electric plant,

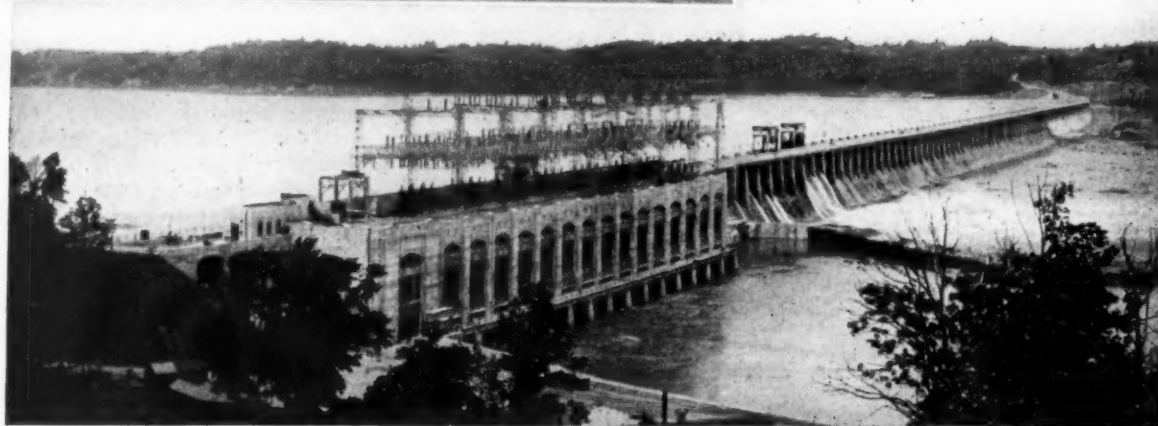
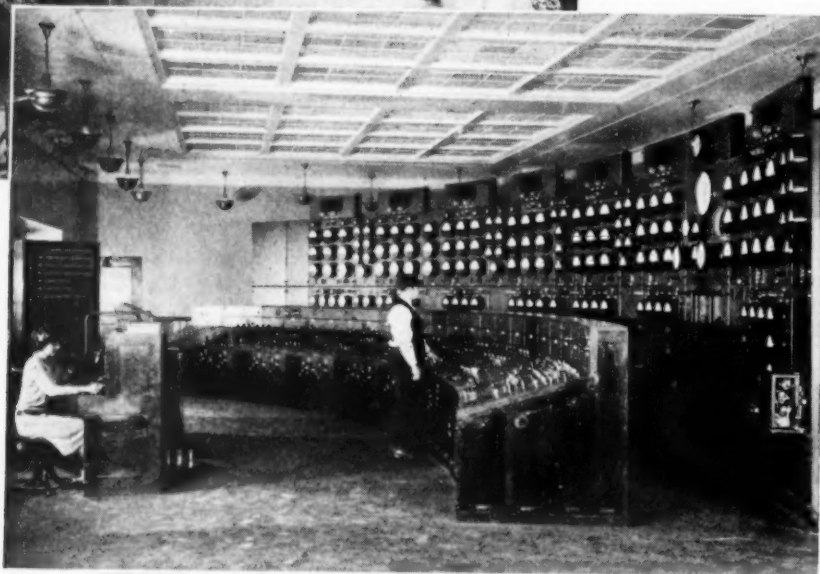


based on its initial installation of power generating equipment. Its size is exceeded only by the Niagara plant. In the power house are seven of the largest water-wheels in physical size ever built, each of 54,000 horsepower capacity and each direct connected to a 40,000 kv-a. generator. Provision has been made for the ultimate installation of four more similar units. Thus, the initial horsepower capacity is 378,000 and the ultimate 594,000 horsepower. The present installation utilizes about 40,000 cubic feet of water per second and is expected to deliver about 1,250,000,000 kilowatt-hours in an average year. Construction work started on the project in March, 1926, and the last of the seven generating units was placed in use on June 16, 1928.

The station is located in Maryland on the Susquehanna River, whose basin, with the exception of the St. Lawrence River, is the largest and most important on the Atlantic Coast. The plant is about six miles south of the Maryland-Pennsylvania line and only four miles above tide-water. The pool formed by the dam is a little over 14 miles long with an area of 9000 acres.

Electricity is generated at 13,800 volts and is transformed in four banks of three 22,667 kv-a. transformers each to 220,000 volts and transmitted to the Plymouth Meeting substation near Philadelphia over two single-circuit tower lines on a right-of-way approximately 58 miles long. Eventually there will be three circuits. The substation provides for stepping down the energy to 66,000 volts at which voltage it is transmitted to Philadelphia and Norristown.

The commercial value of the hydro-electric power from Conowingo is in the ability to co-ordinate its operation with and absorb its output in a great steam-operated electric system. When the plant is in full operation and its output is being absorbed in the system of the Philadelphia Electric Company (perhaps in 1930), the base load of the Philadelphia system, to the extent of the 231,000 kilowatts obtain-



VIEW OF THE GREAT CONOWINGO POWER HOUSE AND DAM.
At Top—Generator Room. In Center—Main Control Bench and Instrument Board.

able from Conowingo, during times of ample river flow, will be carried on hydro-electric power 24 hours of each day, the steam plants of 500,000 kilowatts capacity, swinging the peak loads. By this method the hydro operation will conserve for the public about 750,000 tons of coal annually and will save the Philadelphia Electric Company more than \$20,000,000 in steam plant investment.

Herewith are listed the firms that supplied main items of equipment and material and that were engaged in construction work on the huge project.

Major Construction Items.

General contractors—power house, headworks and tail race—Stone & Webster, Inc., Boston.
220,000-volt substation on power house roof—Day & Zimmermann Engineering & Construction Co., Philadelphia.
Dam, relocation of railroad—Arundel Corp., Baltimore.
Relocation of main highway—Thomas, Bennett & Hunter, Westminster, Md.
Transmission lines—Day & Zimmermann Engineering & Construction Co. and Philadelphia Electric Co.
Plymouth Meeting and Westmoreland substations—Philadelphia Electric Co.

Mechanical Equipment.

7—Main water-wheels with butterfly valves and governors—54,000 h.p., 89 ft. head, 4 by—Allis-Chalmers Manufacturing Co., Milwaukee; 3 by I. P. Morris Corp., Philadelphia.
2—Station service water-wheels, 1900 h.p., 89 ft. head—S. Morgan Smith Co., York, Pa.
Crest gates, regulating gates, sectional head gates, stop logs, track racks, guides, etc.—Newport News Shipbuilding & Dry Dock Co., Newport News, Va.
Roller trains and latching equipment—M. H. Treadwell, Inc., New York.
5—Electric traveling cranes, two 150 tons, 2 50 tons and one 15 tons—Niles Crane Corp., New York.
3—Gantry cranes—60 tons, one tail race crane—20 tons—Morgan Engineering Co., Alliance, O.
14—Ventilating fans—B. F. Sturtevant Co., Boston.
Elevator for office bay—Gurney Elevator Co., Honesdale, Pa.
4—Air compressors; 2 unwatering pumps; 3 transformer oil pumps—Worthington Pump & Machinery Corp., New York.
Filtered water plant and equipment—Norwood Engineering Co., Florence, Mass.
Fire alarm equipment—Gamewell Co., Newton Upper Falls, Mass.
Fire fighting equipment—Foamite-Childs Corp., Utica, N. Y.
Heating and ventilating duct system—Riggs-Distler & Co., Inc., Baltimore.
Generator rotor lifting beam, 300 tons—Alliance Machine Co., Alliance, O.
Oil purification equipment—Sharples Specialty Co., Philadelphia.
Oil-tanks, six 15,000 gal.; one 11,000 gal.; one 2,000 gal.—R. S. Newbold & Son Co., Norristown, Pa.
2—Pumps and filtered water system—Quimby Pump Co., Inc., Newark, N. J.

2—Fuel oil and one circuit breaker oil pump—McKinney Mfg. Co., Boston.
Heating return vacuum pump—Nash Engineering Co., South Norwalk, Conn.
2—Transformer cooling water pumps—Ingersoll-Rand Co., New York.
Valves—Walworth Co., Boston; Ohio Injector Co., Wadsworth, Ohio; H. Belfield Co., Philadelphia.
Water level recorders and indicators—Leupold-Volpel & Co., Portland, Ore.
Structural steel—Fort Pitt Bridge Works, Pittsburgh.
6—Drinking water coolers—Kelvinator Corp., Detroit.
Steel sash, skylights and ventilators—David Lupton Sons Co., Inc., Philadelphia.
Mechanical sash operators—Lord & Burnham Co., Chicago.
Doors and frames—Howell, Field & Goddard, Inc., Long Island City, N. Y.
Roofing and sheet metal—Thomas S. Gassner Co., Philadelphia.
Bus compartment doors—Horricks Iron Works, Philadelphia.
Terrazzo floors—American Tile & Cement Co., Philadelphia.
Glass and Glazing—Pittsburgh Plate Glass Co., Pittsburgh.
2—Heating boilers—Titusville Iron Works, Titusville, Pa.

Electrical Equipment.

7—Direct connected generator groups each including main generator, auxiliary generator and auxiliary generator exciter, 3 by—Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.; 4 by—General Electric Co., Schenectady, N. Y.
Main generators, auxiliary generators, auxiliary generator exciters, 2 station service generators and direct connected exciters, 8 three unit motor-generator exciter units, 17 regulators, 3 station power transformers, induction voltage regulator, 7 oil circuit breakers, neutral ground resistor, ventilating fan motors—Westinghouse Electric & Mfg. Co.
Main power transformers, 10 oil circuit breakers, bus tie oil circuit breakers, 2 oxide film lightning arresters, 6 choke coils, 3 battery charging motor-generator sets—General Electric Co.
13 220,000-volt disconnecting switches—Railway & Industrial Engineering Co., Greensburg, Pa.
2 control and emergency lighting batteries—Electric Storage Battery Co., Philadelphia.
Bus supports, disconnecting switches, fuses, resistor mountings—Electric Power Equipment Corp., Philadelphia.
Bus bar copper—American Brass Co., Waterbury, Conn.
Switchboard and generator room signal equipment—Q. P. Signal Co., Needham Heights, Mass.
Station service and exciter switchboard—Cutter Electrical & Mfg. Co., Philadelphia.

220,000-Volt Transmission Line.

Main switchboards—Philadelphia Electric Co.
Steel towers—Blaw-Knox Co., Pittsburgh.
River crossing towers—Archbold-Brady Co., Syracuse, N. Y.
Special right angle bridge—Belmont Iron Works, Philadelphia.
Conductor and ground wire—Aluminum Co. of America, Pittsburgh.
Hardware—Westinghouse Electric & Mfg. Co.
Suspension insulators—Westinghouse Electric & Mfg. Co.; Locke Insulator Co., Baltimore; Lapp Insulator Co., Leroy, N. Y.
Aring Rings—Locke Insulator Co. and Westinghouse Electric & Mfg. Co.

Electric Car Transportation Discussed.

Cleveland, Ohio, October 27—[Special.]—Co-operation between transportation companies and the public was urged by Owen D. Young, chairman of the board of the General Electric Company, in an address here to the American Electric Railway Association, his conclusions being: That local transportation, if possible, should be a monopoly, in the hands of private interests; that safety of capital and adequate investment return be assured to such private interests, and that private ownership provides more efficient and economical transportation than public ownership. "Certainly," said Mr. Young, "the farmer in 1928 does not expect to feed his horses half the oats he did in 1914 and yet get the same service from them. That is exactly, however, what the public is demanding where it still insists on the five-cent fare. If a five-cent fare is insisted upon where on the average it costs eight cents to transport, why talk about private capital doing that job?"

\$6,000,000 Expended for Birmingham Homes.

Birmingham, Ala.—Figures compiled from the monthly reports of the City Building Inspector show that the construction of homes in Birmingham between January 1 and September 30 represents a cost of nearly \$6,000,000. Of this amount, it is estimated that \$656,971 was invested in dwellings and \$212,632 in apartment buildings, the figures not taking into account new residential buildings outside the Birmingham city limits. Fairfield, Tarrant City and Shades

Valley, except Hollywood and a small portion of Redmont, are not included in the reports for Birmingham. It is estimated that between 250 and 300 dwellings have been built in these areas since January 1, or are under construction.

Bids on Unit of \$750,000 College Buildings.

Washington, D. C.—Bids will be received until November 8 on the first unit of a \$750,000 group of buildings at Brookland, Md., a station of Washington, for De La Salle College of the Christian Brothers. The buildings will be designed in the Ecclesiastical Tudor style, the initial unit to accommodate 100 scholastics and 150 other students. Milburn, Heister and Company, Washington, are the architects.

Advises Independents to Organize.

Chicago, Ill., October 20—[Special.]—As a defense against inroads of chain stores on their business, Edward A. Filene of Boston, at a retailers' luncheon of the Chamber of Commerce, advised independent merchants to organize or to join one of the several types of buying or management associations "which can meet the chain store at its strongest point." Through buying pools and associations of retailers in groups with a central organization, he declared, the independents will obtain a buying power as strong as that of chains, and store management that is fully as effective. Competing drug stores, he said, had formed buying pools and had successfully met chain competition.

\$1,152,482,000 Value of North Carolina's Factory Output in 1927.

WITH A 10 PER CENT INCREASE IN MANUFACTURED OUTPUT IN TWO YEARS, SUBSTANTIAL GAINS WERE REPORTED FOR EACH OF THE ITEMS ON THE CENSUS SCHEDULE, RANGING FROM THE NUMBER OF PLANTS TO THE VALUE ADDED BY MANUFACTURE WHICH AMOUNTED TO \$597,737,000.

Preliminary figures of the 1927 biennial industrial census of North Carolina indicate that the State continues to make steady progress in industrial development. The aggregate value of its manufactures in 1927 is reported at \$1,152,482,164, a two-year increase of \$102,048,047, or about 10 per cent, as compared with the industrial census of 1925, when the value of factory output was \$1,050,434,117. In 1923 the industries of the State produced \$951,910,000 of goods and \$943,808,000 in 1920. As compared with the value of the manufactured products of the State in 1910 of \$216,656,000 the gain in 17 years was 478 per cent.

In making its 1927 manufacturing census returns, North Carolina is the first of the 48 States to complete an industrial inventory, and the enumeration was made for the first time in North Carolina by a State agency—the Department of Conservation and Development co-operating with the United States Bureau of Census. Also for the first time the returns show that the value added to raw materials by manufacturing processes was over a half billion dollars, the amount in 1927 being \$591,737,885 as compared with \$499,727,152 in 1925, or an increase in the two-year period of \$92,010,733.

There were 3,004 manufacturing establishments listed in the census report of 1927 as compared with 2,614 in 1925, an increase of 390 establishments in the two years. The number of workers engaged in industrial occupations increased from 182,234 in 1925 to 205,604 in 1927, a gain of 23,370, or 13 per cent, while at the same time wages increased 18 per cent from \$134,237,097 to \$157,812,720.

As was to be expected from the great textile development of North Carolina in recent years, this industry with products valued at \$425,234,595 in 1927, led all others, closely followed by tobacco manufacturing with an output valued at \$413,274,114. Textile manufacturing represented about 37 per cent of the total value of the State's manufactures, and

textiles and tobacco manufacturing combined aggregated \$838,507,709, leaving \$213,974,455 as the value of miscellaneous factory commodities produced in 1927.

In the textile group the production of cotton goods ranked highest, with a value of \$310,801,860 in 1927 as compared with \$316,068,931 in 1925. The knit goods industry ranked next to the manufacture of cotton goods with a total output valued at \$61,370,220 in 1927 as compared with \$44,300,819 in 1925. From this it will be seen that while cotton goods production declined in value in the two-year period, the knitting industry reported a substantial increase. The value of the output of dyeing and finishing plants in North Carolina more than doubled since 1925, the production last year being \$19,402,448 as compared with \$8,510,852 in 1925.

Comparisons prepared by Park Mathewson, statistician of the department, show the number of knit goods factories as having increased from 111 in 1925 to 129 last year. Wage earners in this branch of the textile industry increased from 13,000 to 17,000 and their wages from \$8,287,228 to \$11,963,107. The amount paid for materials and power increased during the two-year interval by one-third and the value added by manufacture by about 45 per cent.

One of the giants of the textile industry, cotton goods—yarn and woven fabrics more than 12 inches in width—has also shown an increase in all figures except cost of materials, which experienced a drop of 11 per cent, and in total dollar value of products. However, the decrease in value of products was only 1.7 per cent, reflecting a lower cost of material overbalancing the drop in value of finished goods. Ten new establishments reported in the census of this branch of the industry; 14 per cent more wage earners were recorded as drawing 23 per cent more wages and adding 16 per cent more value than reported in 1925.

Other smaller units of the textile group show results which are equally impressive.

1927 MANUFACTURING CENSUS OF TEN OF THE LEADING INDUSTRIES OF NORTH CAROLINA.

Industry	No. Establishments	Wage Earners	Wages	Material and Fuel and Power	Total Value Products	Value Added By Manufacture
All textiles and products:						
1927 totals	595	123,532	\$86,145,015	\$256,887,676	\$425,437,522	\$169,549,846
Tobacco products:						
1927 totals	21	15,976	12,545,075	124,712,918	413,274,114	288,561,196
1925 totals	21	15,715	12,000,215	113,395,726	343,075,607	129,679,781
Furniture:						
1927 totals	143	14,821	14,417,590	27,702,378	53,551,221	25,848,843
1925 totals	127	13,567	10,752,977	24,944,903	51,208,238	26,263,335
Lumber, including planing mills:						
1927 totals	756	21,366	15,476,466	25,533,624	53,189,652	27,655,758
1925 totals	669	20,769	15,536,654	26,024,877	54,062,615	28,037,738
Fertilizer:						
1927 totals	84	1,842	1,532,364	13,962,784	18,293,687	4,330,903
1925 totals	65	1,796	1,419,240	13,956,428	20,068,546	6,112,118
Flour and meal:						
1927 totals	153	562	519,616	15,046,938	17,847,452	2,800,514
1925 totals	115	484	442,624	15,227,237	18,201,542	2,974,305
Cotton seed oil, cake and meal:						
1927 totals	53	1,418	1,067,922	13,962,245	17,612,879	3,650,634
1925 totals	51	1,426	862,933	14,776,990	17,484,244	2,707,254
Leather, tanned and cured:						
1927 totals	11	1,342	1,237,243	12,128,432	16,405,354	4,276,922
1925 totals	11	1,020	878,664	8,232,977	11,042,486	2,809,509
Car construction and repair (steam railways):						
1927 totals	16	4,611	6,369,417	7,209,774	14,447,433	7,237,659
1925 totals	15	4,876	6,365,261	7,800,435	14,993,594	7,193,163
Printing and publishing:						
1927 totals	228	1,753	2,836,028	2,979,666	12,259,226	9,279,560
1925 totals	218	1,628	2,618,674	2,795,152	11,000,430	8,265,278

Note: Comparative figures for 1925 for the total of all textiles are not available.

Over \$413,000,000 the Value of North Carolina's Tobacco Manufactures—More Tobacco Products Made in State Than Elsewhere in the World.

Raleigh, N. C., October 27—[Special.]—Sir Walter Raleigh's expedition, as they smoked the peace pipe on Roanoke Island, in North Carolina, in 1585, could little have pictured the final figures on tobacco grown and manufactured in North Carolina for 1927, as released by Wade H. Phillips, director of the state department of conservation and development, which are far beyond any former record of even this great tobacco State. The value of the raw tobacco, \$111,550,000, was greater than any other crop grown in North Carolina, or than the combined tobacco crop of its three nearest competitor states. The extent of the state's tobacco manufacturing industry can be partially appreciated when we know that its total, \$413,274,000, was nearly three and three-quarters times the value of the raw tobacco and was in excess of the total value of all the agricultural products, timber, minerals and fisheries products of North Carolina in 1927. The following facts and figures about North Carolina's tobacco and tobacco manufacture are given by Park Mathewson, department statistician, who has just completed them in the biennial census of manufactures, 1927:

One fourth of the tobacco crop of America is produced on the farms of North Carolina. The state's factories manufacture more tobacco products than any other section.

In 1927 there were raised on the tobacco farms of North Carolina 485,000,000 pounds, valued to the grower at \$111,550,000, an amount exceeding the next ranking crop, cotton and cotton seed, by over \$13,000,000.

As certain types of North Carolina grown tobacco are suitable for foreign tobacco-manufactured products, a considerable quantity of the leaf is exported. Also North Carolina manufacturers have developed a foreign market of no mean importance for their products, and in the international tobacco world this state occupies an outstanding position.

From an economic standpoint the tobacco industry is worthy of special mention. It represents an even balance of commerce and industry in that the farmer has a ready at hand and unfailing market for his product, thus obviating long haul to market and a consequent saving in the cost of distribution.

The leaf tobacco is sold by the farmer to the manufacturer or dealer. There are some 44 tobacco markets, in which 148 warehouses are operated. The grower hauls the leaf to one of these markets, over the splendid system of North Carolina highways and delivers it at the warehouse where it is weighed and tagged. The manufacturers and dealers bid, on a competitive basis, on each pile of tobacco and the grower is paid in cash, type or grade and demand controlling the price paid.

North Carolina's tobacco industries produced \$413,274,114 worth of finished product, involving in the process the employment of over 18,000 wage earners in the 21 factories in the State. The increase for the two year period amounted to over \$80,000,000 in cigars and cigarettes alone.

The major tobacco product of North Carolina is cigarettes. According to available statistics one tobacco center in the state makes more cigarettes than any other city in the world. Smoking and chewing tobacco come next in volume of production; there are several plants in which snuff is made; these products show a decrease in production in the 1927 census. Some cigars are also being manufactured in the State.

The principal manufacturing centers are located at Winston-Salem, Durham and Reidsville.

Viewing the industry from a national and international

angle, it represents a considerable factor in the internal revenue receipts of the United States. During the last fiscal year the Government collected in North Carolina \$225,315,303, which is more than five per cent of the entire nation's internal revenue from all sources. More than \$6,000,000 per annum, in custom charges, is paid by the tobacco industry on goods and commodities shipped into North Carolina from foreign countries.

In 1927 nearly 1000 wage earners were added to the cigarette branch of the industry with an increase of wages paid of over \$1,000,000 while about \$13,000,000 more was paid out for material and power and \$166,000,000 more was added in value by manufacture.

The chewing and smoking tobacco division showed a decrease of around one-third in number of establishments reporting, amount of wages paid and value added by manufacture, a decrease of 25 per cent in wage earners, 20 per cent in expenditures for material and 30 per cent loss in value of products produced. The division of cigars and cigarettes showed a percentage of consistent increase, with 25 per cent more establishments reporting and the same percentage of increase in total value of products, 12 per cent more was paid for material, 10 per cent for wages and there were 7 per cent more wage earners employed. The analysis as to effectiveness of manufacture and management of the latter, and profitable production, is shown by the value added by manufacture being 160 per cent more in 1927 than the total value added in 1925. In addition to the large number of wage earners and wages paid, the cigar and cigarette industry also employed over 4000 salaried employees to whom was paid over \$7,500,000.

Annual Meeting of National Association of Cotton Manufacturers.

Lincoln Baylies of the textile selling house of Amory, Browne & Co., Boston, was elected president of the National Association of Cotton Manufacturers, at its convention held in Boston October 25, to succeed Col. G. Edward Buxton of Providence. Philip Dana, treasurer of Dana Warp Mills, Westbrook, Me., was re-elected senior vice-president and Irving Southworth, agent of Pacific Mills, Lawrence, was chosen junior vice-president. Russell T. Fisher was re-elected secretary and W. Irving Bullard, treasurer. New members of the board of government are: Amory Coolidge, assistant treasurer, Pepperell Manufacturing Co., Biddeford, Me.; John H. Holt, treasurer, Luther Mfg. Co., Fall River, Mass.; Charles E. Inches, treasurer, Androscoggin Mills, Lewiston, Me.; Frank I. Neild, president, Neild Mfg. Co., New Bedford, Mass.; Henry G. Nichols, treasurer, Otis Co., Ware, Mass.; and Walter Whipple, agent, Nashua Mfg. Co., Nashua, N. H.

Following the election of officers three addresses were delivered on "Hedging of Cotton." The subject was discussed from the angle of the cotton exchange by Samuel T. Hubbard, former president of the New York Cotton Exchange; from the angle of the mill treasurer by Ward Thoron, treasurer of Merrimack Mfg. Co., Lowell, and the theory by Prof. Melvin T. Copeland of Harvard University. Dr. Bonney Youngblood, principal agricultural economist of the division of Cotton Marketing, U. S. Bureau of Agricultural Economics, talked on "New Cotton Statistics on Grade and Staple."

\$285,330 Contract Let for Georgia Sanitarium.

Milledgeville, Ga.—Wager and Company, Atlanta, have been awarded contract at \$285,330 to erect a hospital unit here for the Georgia State Sanitarium, which is expected to cost about \$500,000 complete. The structure will be fireproof, of steel and reinforced concrete, to contain about 300 beds. Daniell and Beutell, Atlanta, are the architects.

Mineral Survey of Florida County Reveals Industrial Opportunities.

The industrial opportunities in Hernando county, Florida, as found by V. Keith White and Associates, engineers, in a recent survey are outlined by them as follows:

"This survey does not cover all minerals to be found in this section of Florida, but merely lists those deposits that we have investigated sufficiently to feel justified in making a definite report of our conclusions.

"Building Brick: We have located a great abundance of clay within easy access to railroads and other transportation facilities. It may be classified according to its uses, the first being brick-making.

"The common brick clay (silicate of alumina) contains compounds of flour gold, magnesia and lime with slight traces of iron. There is enough oxide of iron to give the brick strength and hardness, as well as to color it after burning to a red heat. The color varies from brown to red. The traces of carbonate and silicate of lime are too slight to be objectionable, while the sand content, ranging from 5 to 20 per cent, tends to preserve the form without causing brittleness. Test brick made of these clays have carried loads in compression of 6,000 pounds per square inch, while the modulus of rupture under tension will average 880 pounds per square inch. They will absorb less than 10.5 per cent, and generally less than 7 per cent, of their weight in water. Brick used in this section have very little frost action to resist.

"We have found desirable tracts for the location of any type of common brick plant including soft-mud brick, stiff-mud brick, pressed or repressed brick. Of the suitable deposits we find that the over-burden is composed mostly of light sand soils varying in depth from one to four feet. They are usually of uniform quality and range in thickness from 10 to 38 feet. None of the deposits are subject to overflow, and even at the greatest depths no seepage will be encountered. Fuel is available nearby, and a plant located in Hernando County will have a freight rate advantage over all competitors of \$6 per 1000 in all South Florida markets.

"Fire Brick: We have also located two large deposits of clay suitable for the making of fire brick. Oxide and sulphide of iron and other compounds harmless in common brick are totally absent from these deposits, while sand, the only impurity, occurs only in minute quantities. The deposits are adequate to supply Florida's demand for fire brick for an indefinite period. A manufacturer of this product would enjoy the same advantages of location as the manufacturer of common brick, except that the market would be more sharply limited.

"Tile and Pottery: Tile, pottery and other kindred clay working industries would do well in this locality, as our tests have located suitable deposits in a wide range of colors.

"Lime Rocks: Lime rock in most of its known forms for any commercial purpose is to be had in large quantities in this county. Lime rock suitable for Portland cement as well as clay gypsum occurs in commercial quantities here. In fact, all the material used in the manufacture of cement at the Florida Portland Cement Company's mill at Tampa is produced in Hernando County.

"Road Base Material: Road base material, carbonate of lime in its softer form, is crushed and placed in road beds and after proper rolling and shaping makes an ideal base for roads having a final application of bituminous wearing surface. These deposits of soft carbonate of lime average 97.8 per cent pure carbonate of lime and the balance is composed of other compositions of inorganic matter. Deposits of this material have convenient access to railroads. The average overburden is 2.7 feet, and the depth of the deposit will average several hundred feet, although seepage sets a practical limit on mining at a depth of 100 feet.

"Concrete Aggregate: Due to the scarcity of any form of gravel in this section of the State it has in the past been expensive to undertake concrete work on a large scale. In the last few years it has come to the attention of contractors that with one exception Hernando hard lime rock had all the good qualities of first grade construction stone; this was that, in mining, the deposits developed soft lime and occasionally clay products. This trouble has been eliminated by the installation of modern crushing plants that wash the stone in the process of preparation. At present there are several large plants producing prepared stone alone. Nu-

merous other tracts suitable for this type of mining are available.

"Phosphate: Both hard and soft phosphate rocks are available in valuable and accessible tracts. For a good many years this section has produced a high grade rock.

"Fullers Earth: During this test, in a scattered area over this county we found two large tracts of a high grade of fullers earth. These deposits were under a light over-burden and ideal for mining except that they are several miles from a railway.

"We do not wish to convey the impression that these are the only mineral deposits in Hernando County. Rather they are our findings in a survey of a small area. In no instance did our search reach a greater distance from a railroad than five miles, and generally less than two. The information we have on this subject is for the industrial welfare of this county. Anyone looking for an industrial site in Florida for any of these purposes will be supplied this information without cost. We will be glad to furnish any interested person a detailed report on any one of these subjects including the cost data on leases or purchase of any particular property."

British Cotton Shipments.

Manchester, England, October 15.—Exports of cotton yarns and manufactures from the United Kingdom for September amounted to £10,600,005 and the total of manufactured articles to £45,186,715 compared with £13,027,524 and £50,140,434 in August and £12,523,570 and £48,770,209 in September, 1927.

For the nine months ended September the figures were £108,985,329 and £431,146,879 against £109,755,438 and £412,296,856 in the nine months of 1927.

Shipments of cotton piece goods in September totaled £8,104,059 representing 298,228,100 square yards, compared with £9,533,919 and 341,285,300 square yards in August and £9,301,394 and 339,046,000 square yards in September, 1927.

For the nine months ended September the exports were £80,680,982 and 2,910,694,200 square yards against £81,472,926 and 3,112,792,800 square yards in 1927.

The cotton yarns shipped in September were valued at £1,469,143, the weight being 11,224,500 pounds. In August the figures were £2,111,056 and 15,773,000 pounds and in September, 1927, £1,903,807 and 15,807,200 pounds.

During the nine months ended September the exports were £16,849,599 and 125,472,300 pounds, compared with £17,387,804 and 153,199,500 pounds in 1927.

\$823,700 Low Bid on Government Printing Office Extension.

Washington, D. C.—The Rust Engineering Company of Pittsburgh, Pa., has submitted low bid to the Treasury Department, James A. Wetmore, Acting Supervising Architect, at \$823,700, for building an 8-story and basement extension to the Government Printing Office. Low bid for the mechanical equipment, except elevators, was submitted by the Virginia Engineering Company, Inc., of Newport News, at \$96,900. The addition will contain about 2,700,000 cubic feet.

\$1,000,000 Organization to Erect Tulsa Store.

Tulsa, Okla.—Details are being arranged by L. E. Abbott and associates of this city for the organization of the Abbott Company to be capitalized at \$1,000,000 for the erection and operation of a department store at Fifth street and Boulder avenue. The structure will be 140 by 100 feet, five stories and basement initially and designed to carry ten additional floors. Among the associates of Mr. Abbott in the enterprise are his son, L. S. Abbott, Homer F. Wilcox, Harry C. Tyrrell and James M. Gillette.

National Manufacturers Plan to Stabilize and Stimulate Business.

[Special Correspondence Manufacturers Record.]

New York, October 26.

Two features of the annual convention of the National Association of Manufacturers, this week, indicated fundamental soundness in the industrial and business position of the Nation at this time: (1) Absence of uncertainty or nervousness which almost traditionally mark the period of the Presidential election, and (2) a confidence-inspiring report on the outlook for the future, based on the opinion of its membership. At the same time, President John E. Edgerton issued a warning: "America has never been confronted by so many grave problems and dangers as at this feverish moment"—the chief of these, he explained, undoubtedly lying "in the moral and political realms of our national life."

In the election of officers, Mr. Edgerton, president of the Lebanon Woolen Mills, Lebanon, Tenn., again was chosen president; George S. Boudinot, secretary for 25 years, was made secretary-emeritus; treasurer, Henry Abbott, Calculotograph Company, New York; general secretary and assistant treasurer, J. Lewis Benton; general counsel, James A. Emery, Washington, D. C., and assistant secretary, J. R. Joyce.

By no means the least interesting of the sessions to the many members present was that under the auspices of the open shop committee, Staunton B. Peck of Philadelphia, chairman. Summarized, the report charged the American Federation of Labor, by name, with attacks on the courts, defiance of injunctions and belief in "the philosophy of Gompers, who maintained that labor contracts bind employers, but not unions." No efforts have been made by the unions, the report said, "to correct the flagrant abuses whose existence Mr. Gompers reluctantly admitted under oath in a public hearing."

Probably of equal interest was discussion of the American protective tariff, in the course of which A. Cressy Morrison, chairman of the executive committee of the American Tariff League, told the women in the industry section that, "if woman by her vote does anything to break down the American standard of living, she will suffer, no matter who she is; if she helps to maintain that standard, she and her children will benefit all the more."

Among other subjects discussed were relief from exactions of the Sherman Anti-Trust Law, proposed anti-injunction legislation, woman in industry, increase in chain store activities and workmen's compensation insurance.

First stating that he would not discuss in detail the great problems which confront the country, Mr. Edgerton in his address plunged into the subject of immigration, saying, in part:

"In the preservation of those ideals and standards by which our progenitors undertook to found a nation of eternal character we have become a nation of compromisers and concessionists. In the name of tolerance and liberalism we have permitted until within very recent years the almost unrestricted invasion of our national household by foreign hordes many of whom have been bringing and keeping their inferior moral and political conceptions, ideals and habits. By the millions they have come to our hospitable shores through the last half century and while many of the sturdier elements have made valuable contributions to our progress, an infinitely larger number have been a continuous national liability."

Mr. Edgerton went deeply into this topic and then turned toward the economic horizon, on which he found:

"The most ominous problems which I see are those which

appear to have resulted from the general loss of balance between production and distribution. Of practically all commodities which America can produce, it is producing regularly from 15 to 30 per cent more than it has the capacity and power to consume and dispose of profitably in other available markets. Many of those industries which are not fortified by adequate surpluses previously accumulated, particularly the textile, have been and are ceasing operations or curtailing them to an unprofitable point. This accounts for some of the unemployment which exists. It is safe to say that a general average of 40 per cent of all the factories that are operating at all today are doing so at a loss. * * *

"Our transcendent problem is and will probably continue for some time to be our surplus productions in factories as well as on farms. When our political experts have taken legislative care of the agricultural surpluses, they can find a sufficiency of opportunity in the manufacturing industry to engage their talents and energies for several years.

"America is going to maintain and raise higher its general level of existing prosperity only by keeping the masses of its people happily employed."

In conclusion, Mr. Edgerton said:

"But even if we take a wholly material view of our situation today it must be evident to any vision that can penetrate beyond the radius of immediate self-interest that America has been traveling much faster economically than morally and spiritually and that unless more intelligently organized and directed attention is given by the most competent and responsible elements of citizenship to the decaying foundations of our national structure, it must inevitably fall by its own top-heaviness. The transcendent need of America today is for an understanding as broad and as deep spiritually as it is intellectually, and for a keener sense of permanent values.

"These are things for which science cannot write formulas; architects plans; nor engineers blue prints. Politicians cannot legislate them into existence nor efficiency experts persuade their operation."

Abundance of American capital constantly seeking investment, American ingenuity, American initiative, American aggressiveness and the necessity for larger production and low costs have brought about an inevitable and ever-increasing capacity for overproduction in every well organized line of endeavor, said George M. Verity, president of the American Rolling Mill Company, Middletown, Ohio, in discussion of the question, "Should the Anti-trust Laws Be Amended?" Mr. Verity declared that these factors have brought about a condition of intense competition in many lines and a gradual lowering of prices beyond the point where a proper return can be shown on capital invested.

In the course of his address, Mr. Verity said:

"Reviewing the situation as of today, modern industry is not suffering from high costs of production, from inefficiency or lack of ingenuity in grappling with any of the many complex practical and economic problems it has constantly to solve. Costs of production have gone to unheard of depths and quality of product has advanced to unbelievable heights. While an ever-increasing market at home and abroad is imperative, still industry is not suffering from lack of demand, as in every two or three year period production and consumption have gone steadily forward.

"What industry needs is greater stabilization, greater uniformity of operation, more power to increase rather than to decrease rates of compensation for human effort expended and the individual risks assumed, and last but not least, better control of both production and distribution to the end that the great savings that are now being made in production are not dissipated in unnecessary and uneconomic competition. * * *

"We do not wish to destroy the original intent of the Sherman law. We simply want it interpreted to cover the original intent and at the same time to make it clear that

It is not designed to destroy the incentive to business efficiency or a sound administration of business generally."

Mr. Emery spoke on "Public Policy and the Manufacturer," his conclusion being that "the very existence of a written national Constitution requires for its interpretation and enforcement a national judiciary, qualified by learning, temperament and character, to make it effective in every part of the American Nation."

\$3,000,000 Telephone Improvements for Richmond.

The Chesapeake and Potomac Telephone Company of Virginia plans to erect a new building at Grace and Seventh streets, Richmond, to provide space for the installation of dial switching equipment to replace the present manually operated Randolph and Madison central offices. The new building will also afford space for executive offices and for the general commercial superintendent, general plant superintendent, general traffic superintendent and the auditor of receipts. The entire project, including land, buildings and



NEW TELEPHONE BUILDING, RICHMOND, VA.

equipment, will involve an expenditure of approximately \$3,000,000.

The new building will be convenient to the business center and accessible to the city's transportation system. Substantial savings are expected by having it adjacent to the present building where the conduit and cable systems now terminate. Richmond will be the second city in Virginia to have the dial system installed, the first such system having been installed in Norfolk in 1919.

The new Richmond building will be of attractive design, finished in light brick with stone trimmings, an effort being made to weave the brick and stone into a uniform design so the structure will give the impression of being wholly of brick ornamented with stone. The structure is expected to be sufficiently advanced by the end of 1929 to permit the installation of the dial switching apparatus, which will require more than a year. It will be a 7-story building, 75 by 140 feet, with a basement and sub-basement. Machinery and a heating plant will be installed in the latter. Three elevators will be installed initially, provision being made for an ultimate installation of six. Plans and specifications are expected to be ready for bids about December 1. Voorhees, Gmelin and Walker, of New York, are the architects.

Petroleum Exposition a Revelation.

Tulsa, Okla., October 27—[Special.]—Fully appropriate in magnitude and completeness to the industry it represents, the International Petroleum Congress and the Exposition were opened this week in a spirit of confidence, are continuing in ever-increasing momentum of enthusiasm, and will close in a spirit of satisfaction that it has been a success from start to finish. Representatives of the petroleum industry and a score of its allied and related industries have expressed wonder at some of the exhibits and gratification at the aggregate, while thousands of other visitors have absorbed a volume of information which must prove of much educational value.

Merely a wave of the hand by Charles M. Schwab, chairman of the board of the Bethlehem Steel Company, opened the exposition and set in motion oil field and refinery machinery, with equipment, valued at more than \$6,000,000. But even in the presence of many monster machines Mr. Schwab urged that co-operation be placed above individual ambition.

"Don't let your personal ambition to have the greatest oil company or to be the greatest producer stand in the way of greater co-operation," said Mr. Schwab. "In steel, I have tried to instill friendship and brotherhood among all steel people. The general promotion of industry will bring industrial prosperity."

Refinement in the production of great machinery probably was best shown in the quiet with which great engines worked. Gigantic machines, showing titanic power, operated with a smoothness almost incredible. The exhibition was a revelation. Also, enormous bits were slung under full size rigs, grinding into the earth, and distillation and separation plants were in full operation. In short, a compact cross-section of the most modern producing and refining methods was disclosed to the visitors.

As a matter of fact, the Congress and Exposition were designed to be the industry's great step for the promotion of a better understanding with the public and as the best method for directing the attention of oil and gas men to the advanced achievements in the petroleum industry. Approximately 500 individuals and firms are represented by exhibits, and engineers in many lines and research men also are on hand.

Coincident with the opening of the gates was observance of Kansas Day, New York Day and Chicago Day, drillers, pumpers and tooldressers, roughnecks and roustabouts, farm bosses and pipe liners celebrating their "day" at the same time, as set forth in the program. Louisiana had its day, and California, the Rotary and the Lions and Kiwanis and Civitan; probably 100 States and subdivisions and professions and industries and civic and other organizations were intimately interested through provision of a "day" for each.

Prominent among the features were the annual safety and first aid meet of the Mid-Continent Oil and Gas Association, the Old Timers meeting, purchasing agents meeting and banquet, Natural Gasoline Association meeting and luncheon of the Optimist Club. And prominent in all the features were many noted business men and financiers and leaders in other industries, while it is estimated that representatives from 20 foreign countries were present.

The petroleum industry feels that the Congress and Exposition were a success in every way, and the visitors join in that belief.

Hydro-Electric Development for New River.

Hinton, W. Va.—The West Virginia Hydro-Electric Company, Charlottesville, Va., plans to construct a small dam across New River, about four miles below Hinton, for the production of power to supplement steam-generated power of the Virginia Public Service Company, Charlottesville, which now supplies current to Hinton and other near-by cities.

Trees As an Agricultural Crop.

HOW A NORTH CAROLINA CORPORATION CO-OPERATES WITH NEARBY FARMERS IN SECURING A SUPPLY OF WOOD FOR ITS PAPER MILL.

[Dr. Pratt is executive secretary of the Southern Forestry Congress and chairman of the executive committee of the North Carolina Forestry Association. He is also a director in the American Forestry Association. The facts which he presents in the following article are worth emphasizing in view of the increasing importance of the conservation of our timber supply and the utilization in full measure of the products of the forest.—Editor MANUFACTURERS RECORD.]

By JOSEPH HYDE PRATT.

The farmers of the South have been for many years attempting to concern themselves with the future timber supply of their region. There are few farmers who do not own a certain amount of forest or wood lands. In North Carolina the farmers own over 50 per cent of the forest lands of the State, and throughout the Southeastern states they own nearly three-sevenths of the forest lands. It is only in the states of Florida, Louisiana and Arkansas that the larger proportion of the forested areas is owned by lumber companies and by the State. Therefore one of the vital questions confronting the farmer today is how to make his woodlands a more valuable asset to his farm.

Trees are now being considered as much an agricultural crop as corn, wheat, tobacco, or cotton. It is just as necessary that the farmer receive full co-operation in raising and marketing his crop derived from trees as from his cotton, tobacco and other products. At present the following four governmental agencies are ready to assist the farmer in this respect: The United States Forest Service, the State Forestry Departments, and the Extension Forestry Departments of the Federal and State Departments of Agriculture. These agencies are now assisting the farmers not only in the cultivation of their trees but in marketing their forest products. Here again, co-operative marketing of forest products is just as essential as co-operative marketing of cotton and tobacco.

There are other agencies, such as the consumers of forest products, which are co-operating with the farmer in marketing his product as well as in raising his crop. Perhaps one of the most outstanding examples of such co-operation is the Halifax Paper Corporation, of Roanoke Rapids, N. C. F. M. Brown, president of this corporation, believed that it was possible for him to obtain a continuous supply of pulp wood for the operation of his mill within a minimum distance of the mill. To this end, contracts were made with the farmers within a

radius of 25 miles of the mill to purchase wood suitable for making pulp at a definite price and over a definite period. Mr. Brown called in R. W. Graeber, extension forester of the United States Department of Agriculture, to confer with the farmers as to how to thin their pine woodlands, harvest their trees, and make them more productive.

The principal agricultural crop grown in this vicinity is cotton, but practically all the farmers have a large part of their land covered with forests, most of which contains pine suitable for making pulp. In cotton growing there is very little work to do after the completion of ginning until time for plowing in April. There is also an idle period in August after the crop is laid by. A very satisfactory arrangement for the farmer was made, by which the Halifax Paper Corporation agreed to purchase the pulp wood during these idle periods just as fast as it can be brought in. Payment for the wood is made every Friday afternoon, and thus the farmer is able to hire help without advancing any capital. As, buying in this way, the corporation has to carry the wood for a considerably longer time on its yard, it insists that the wood be barked as soon as it is cut in order that it will not deteriorate. By this arrangement, the farmer can bring in his wood as soon as it is cut and turn it into money.

Formerly, farmers would cut a large quantity of wood, leave it in the woods for perhaps three months, where it was very likely to become worm-bark; and if they were busy farming they might not be able to deliver all the wood that had been cut. Wood left out for over a year would not only be unfit for use in the mill, but for practically any other purpose.

According to their contract, the farmers are given 30 days' notice when the corporation intends to stop taking wood, which gives them an opportunity to deliver the wood cut and clean up the woods. Demonstrations of thinning and cutting



FARMERS WITHIN A RADIUS OF 25 MILES BRING WOOD REGULARLY TO THE PLANT OF THE HALIFAX PAPER CORPORATION, ROANOKE RAPIDS, N. C.

the timber are held periodically by the forester of the Extension Service, and instruction is given in the use of small branches for fuel and in keeping the woods clean and less susceptible to the ravages of fire. It has been estimated by foresters that the pulp wood brought in from these various farms is not greater than the annual growth of the young trees. In this section it takes from 12 to 15 years to produce a tree of sufficient size for cutting for pulp.

The corporation will not purchase pulp wood from speculators who buy on the stumpage basis and cut everything, thus ruining the larger percentage of the young growth. There are several pulp mills in eastern North Carolina, but it is believed that this industry can be developed to a considerably greater extent and that with the advent of additional pulp mills the farmers of those communities will also be able to market their pulp wood profitably, and thus have a money crop from their woodlands.

The people in the vicinity of Roanoke Rapids have been thoroughly convinced that trees should be considered a crop, and during 1927 126 white and 176 colored people hauled wood for the Halifax Paper Corporation.

Baltimore Gives Impetus to Foreign Trade.

As one of the greatest ports of the United States, Baltimore observed Foreign Trade Field Day on October 30, individual advisory conferences with foreign trade experts, an address by Dr. Julius Klein of the Department of Commerce and special discussions by experts of foreign trade procedure and overseas merchandising of leading Baltimore commodities being features of the occasion. The meeting was held under the auspices of the export and import bureau of the Baltimore Association of Commerce.

To the visitors were emphasized the ever growing importance of Baltimore as a trading, shipping and export center and the manifold services available through the Department of Commerce to all interested in foreign trade and the overseas merchandising of their products. "The growing intensity of competition forecasts the importance of foreign trade as a necessary step in the growth and expansion of local business enterprise," said spokesmen of the export and import bureau.

Baltimore, it was shown, is now the third largest foreign trading port in the United States, having 36 regular overseas steamship services operating vessels on scheduled sailing date to all important world markets. In 1927, 1430 oceangoing vessels in foreign service entered the port of Baltimore, "and each ship entering the port is worth approximately \$8000 to the community," it was said. Baltimore's total foreign commerce in 1926 ran to 12,452,328 tons, as compared with 5,408,524 in 1913.

New Florida Citrus Fruit Plant Opened.

Davenport, Fla.—The new citrus packing plant here of the Holly Hill Fruit Products, Inc., has been completed and put in operation. It is 157 by 105 feet, of concrete and steel, with corrugated asbestos roof and equipped with modern citrus packing machinery. More than 100 workers will be employed during the season. Frank W. Crisp is president of the company; Lorenzo A. Wilson, vice-president, and James A. Watkins, secretary and manager.

Austin Plans Vote on \$750,000 Bonds.

Austin, Tex.—November 15 has been tentatively set as the date of an election on bonds in the amount of \$750,000, to include \$300,000 for schools, \$175,000 for street improvements, \$75,000 each for an airport, fire stations and parks and playgrounds, and \$50,000 for a hospital. Adam R. Johnson is the city manager and S. W. Mabry, city finance director.

CLEWISTON, FLA., NEEDS 100 DWELLINGS. So Declares President of Sugar Company Developing Plantations and Mills—To Begin Grinding Cane in December.

As a result of the sugar cane plantation and mill project being undertaken near Clewiston, Fla., by the Southern Sugar Company of Chicago, and the bringing into the section of large numbers of workmen, B. G. Dahlberg, president of the company, declared after a recent trip of inspection that he believed as many as 100 new dwellings would be almost immediately absorbed by purchasers or tenants.

"At the time of my visit every residence in town was occupied. All the hotels were filled to capacity and people were being turned away every night," Mr. Dahlberg reports. "A great number of workmen are being transported each night to neighboring towns for lodging. Many people are forced to occupy temporary living quarters of almost any kind, and it seems that there is an unparalleled opportunity in Clewiston, which is located midway between Fort Myers on the west coast and Palm Beach on the east coast.

"It is, we believe, but a question of some years until this section of the Everglades will give employment directly, or indirectly, as a result of sugar and other development to some 15,000 or 20,000 people, all of whom will be permanent citizens. The Southern Sugar Company does not wish to engage in real estate activities but I feel that the situation at Clewiston can well receive the attention of men of capital in the building line."

The project of the Southern Sugar Company is a big and comprehensive one involving the planting of large areas in cane, the placing of those areas under proper water control, etc., and the erection of sugar mills. The first unit of a 1500-ton sugar mill is nearing completion, and should be ready to grind cane about December 1. Later the Celotex Co.—manufacturers of insulating and building board from bagasse, the waste from sugar mills—controlled by the Dahlberg interests, will erect a huge plant at Clewiston.

Trade Practice Conference of Cotton Seed Oil Mills Industry Approved by Federal Trade Commission.

The Federal Trade Commission has signified its approval of the action taken, and rules for business conduct adopted, by the conference of the Cotton Seed Oil Mills Industry, held in Memphis, July 24 last. The trade practice conference was in line with a policy the Federal Trade Commission has pursued in place of the former custom of issuing complaints against, and making investigations of, the trade practices of firms believed to have violated the laws of trade. It is a part of the governmental attitude of today, which aims to relieve business as much as possible of federal supervision by making the different industries the supervisors of the ethics and practices of their individual members. In this instance the rules of business conduct adopted by the conference last July have been rearranged by the commission under two groups. Those included in Group I are affirmatively approved by the commission, while those appearing under Group II are accepted as expressions of the trade.

Foreign Markets for Fruits.

A study of existing and prospective European markets for American fruits, and arrangements for securing more frequent and more inclusive market and crop reports on fruits in Europe have been initiated by the Bureau of Agricultural Economics, United States Department of Agriculture. The bureau's program has been arranged in response to the demands from co-operatives and other marketing agencies for foreign information on fruits.

Arkansas' Art Pottery Industry.

By TOM SHIRAS, Mountain Home, Ark.

The development of Arkansas' ceramic clays is one of the most interesting industries that has come to the State. Niloak art pottery has been burned from the kaolin deposits at Benton, Saline county, for over a decade, and the ware is well known to art connoisseurs in every section of the United States. The opening of the Camark pottery plant at Camden, by Jack Carnes last year, added another interesting chapter to the industry.

The tertiary clays may be considered the most important in the State, underlying a large area. With their accompanying sands and marls and organic deposits, they are present in a large part east and south of the Missouri Pacific Railroad, south of the Arkansas River. North of this and east of the Paleozoic hills the sediments are chiefly Quarternary deposits.

Sebastian is among the leading counties in the State in the development of its clay industries, clay shales of the coal bearing rocks in that county being used in the manufacture of paving bricks. Light blue clays suitable for the manufacture of good drain tile are present in White, Monroe, Phillips, Lee, St. Francis, Cross, Poinsett, Craighead, Greene, Clay and Clark counties. Fire clays occur under nearly all the lignite beds in eastern and southern Arkansas.

Deposits of kaolin occur at many places in central and southwestern Arkansas, the best deposits of this fine ceramic clay being near Benton; from these deposits the famous Niloak pottery is made. The beauty and popularity of this pottery is due largely to the skill of the artists. No two



FINISHING NEWLY BURNT WARE.

pieces are alike in color; two or more shades are employed, usually a blue and a brown, in accidental pattern, blended seemingly carelessly from the two colors. The products of the Benton plant consist of art vases, bowls, urns and numerous other ornaments for the home.

The list of products at the Camark plant covers almost everything in art pottery from salt and pepper shakers to bird baths, 60 inches high, the line including vases, urns, flower bowls, electrical water fountains and electrical art light fixtures. The plant also makes imitations of rare antiques, duplicating the finest imported pieces. Recent new designs are futuristic and modernistic pottery, consisting of highly colored decorated vases, urns, bowls, etc., with a highly glazed finish. All the decorated pieces are hand decorated by the plant artists.

Camark pottery is burned from a semi-ball and china clay, a natural product of Ouachita county. When not colored or decorated, it comes from the kilns in a light ecru color,

resembling delf ware. A great deal of it is shipped in this form to city markets and sold to artists for hand decorating and burning, like china. The demand for the material is steadily increasing.

The Camark pottery maintains a special order department, equipped to duplicate almost anything in pottery. The value of this department was recently shown, when the plant



DECORATING POTTERY BY HAND.

received a letter and a cream pitcher from a large New York department store, asking if the pottery could duplicate it. That firm had been buying these pitchers in Italy, and had built up a very profitable trade, but the Italian house could not make further deliveries and the New York store had to duplicate the pitcher or lose the business. "So we started to make Italian cream pitchers," Mr. Carnes said.

The equipment of the Camark plant consists of two 14-foot pottery kilns, fired with natural gas. These have a capacity of 4000 average pieces to the kiln and annual average production capacity of 1,500,000 pieces; there have been times when the entire capacity was needed. Other departments of the plant are a molding room, pattern room, where new designs are turned on a potter's wheel and lathe, and special orders filled, and a decorating room, where all the art work is done by hand.

\$350,000 Washington Church Under Construction.

Washington, D. C.—Work has been started on a \$350,000 building program for the Church of the Pilgrims, construction to involve a church auditorium, Sunday School and manse. The buildings will be of stone, brick and stucco, with mastic, wood and tile floors, slate roofs and a central steam heating plant. The church will be about 110 by 55 feet, one story and basement; Sunday school building, 84 by 40 feet, two stories and basement, and the manse, 56 by 30 feet, three stories and basement. Flournoy and Flournoy are the architects and the George A. Fuller Company, general contractor, both of Washington.

Ohio Paint Firm to Build Southern Factory.

Spartanburg, S. C.—The Stewart Brothers Paint Company, Inc., Alliance, Ohio, will construct immediately a branch factory here which is expected to be ready for operation by the first of next year. Plans for a fireproof building are being prepared by the Lockwood Greene Engineers, Inc., Spartanburg, the structure to contain 12,000 square feet of floor space. The company will manufacture architectural and industrial paints, enamels and varnishes. F. B. Jacoway, Atlanta, will come to Spartanburg as resident sales manager.

AIR-RAIL LINE TO WEST INDIES.

Two Railroads and Aviation Company to Start Service in January.

Under a co-operative arrangement between the Atlantic Coast Line Railroad, the Florida East Coast Railway and the Pan-American Airways, Inc., of Miami, Fla., a direct air and rail service between New York and the West Indies will be inaugurated on January 10.

The service is announced as "the first major step in the development of a gigantic air-mail and passenger system to link the three Americas, and is expected later to be extended through Central America and Panama to South America." Passengers leaving New York at 7.10 o'clock in the evening on the Palmetto Limited of the Atlantic Coast Line will arrive in Miami over the Florida East Coast Railway from Jacksonville at 7.15 o'clock of the second morning. Motor cars of the Pan-American Airways will meet the train in Miami and transfer passengers to the company's airport, four miles from the center of the city. At the airport breakfast will be had, after which passengers will board tri-motored airliners, arriving at Camp Columbia Field, Havana, at 10.15 the same morning. The 261 miles between Miami and Havana will be covered in two hours and fifteen minutes, or eight hours and thirty-five minutes faster than the same trip by rail and steamer.

Passengers to other points in the West Indies will make the same rail connections from New York. The planes, after stopping at Havana, Santa Clara and Camaguey, will arrive at Santiago de Cuba at 5.30 o'clock P. M. The time from New York to Santiago de Cuba will be 46 hours, and here an overnight stop will be made, the planes resuming the trip the next morning and arriving in San Juan, Porto Rico at 5.15 o'clock in the afternoon, after stops at Port au Prince, Haiti, and Santa Domingo City, Dominican Republic. Daily service will be furnished from Miami to Havana by planes and tri-weekly service to Porto Rico.

Tri-motored enclosed cabin planes to carry 12 to 14 passengers will be operated. Facilities will include running water and buffet service. Each will carry a crew of three. United States mail and passengers baggage will be carried in special compartments.

National Rivers and Harbors Congress.

Questions vital to the future of inland waterways will be considered at the 24th annual meeting of the National Rivers and Harbors Congress to be held at the New Willard Hotel, Washington, December 5 and 6. Subjects to be discussed include: The criticism being aimed at the Inland Waterways Corporation and the opposition to a \$10,000,000 increase in its capitalization, authorized but not yet appropriated; amendments to the flood control act; the Wyant bill, which proposes to transfer the jurisdiction of the rivers and harbors from the War Department and the Engineer Corps of the Army to a bureau to be created in the Department of the Interior; the Campbell bill, backed by the Associated General Contractors of America and designed to require the Army Engineers to let all river and harbor work on contract; and other proposals for limiting the powers of the army engineers.

Port Possibilities of St. Joseph's Bay, Fla.

St. Joseph's Bay on the southwest side of Gulf County, in that portion of the state known as West Florida, offers many possibilities for an important port development, according to P. B. Rodgers, an industrial engineer of Panama City, Fla., and Seattle, Wash. The bay, which has a shore line of 35 miles, is said to be widely known as a safe harbor easily accessible to vessels and frequently sought by ships plying the Gulf of Mexico. It is formed by a long finger-like peninsula

swinging out from the mainland at a point about 10 miles south of Port St. Joe in a westerly direction and thence north about 14 miles, enclosing a deep bay of more than 50 square miles. The average depth of the water is said to range from 30 to 50 feet, with a depth of 100 feet in places and 25 feet over the bar. There is said to be no evidence that the harbor has ever been visited by an unusual tide and no record that a single craft has ever been lost.

The steady increase in Florida water-borne tonnage during the past few years and the fact that the Apalachicola Northern Railroad, through its connections at River Junction with the Atlantic Coast Line, the Louisville and Nashville, and the Seaboard Air Line, furnishes a direct and short outlet to deep water at Port St. Joe on St. Joseph's Bay, where it has built a 2800-foot pier with a loading space 1000 feet long and 50 feet wide, carrying three rail tracks, promise much for the development of the port, according to Mr. Rodgers. St. Joseph's Bay is said to be the nearest deep water gulf port in Florida to the largest population and to the industrial, farming, mining, timbering and distributing centers of these areas.

Louisiana Urged to "Buy at Home."

New Orleans, October 27—[Special.]—In its campaign to teach purchasers in Louisiana that the State itself produces and offers very many of the commodities which they buy, the Louisiana Manufacturers Association has arranged for an exhibit of Louisiana-made products at the convention of the Louisiana Federation of Women's Clubs, Alexandria, November 7, 8 and 9. "Out of 880 Louisiana-made products from the 1800 plants employing labor in Louisiana, you should be able to find a large number of those commodities which you buy daily," says George C. Long, president of the Louisiana Manufacturers Association. "Your purchasing one from a Louisiana factory will result in other Louisiana manufacturers buying your product also."

New Grapefruit Canning Plant for Orlando.

Orlando, Fla.—A big canning plant, being erected here by Merle McElroy for the Orlando Canning Company, of which B. F. Shaver is president, is expected to be ready for operation by November 15. The company will put up grapefruit under a brand to be known as "Heart of Florida," and anticipates an output this season of 90,000 to 100,000 cases of 24 cans to the case. It is probable that the company will can stringless beans and other vegetables between fruit canning seasons, employing initially 150 women and 50 men. D. W. Tungate is vice-president of the company and A. D. Zachary, secretary and treasurer.

Low Bid for 2,813,250 Cubic Yards Dredging.

The Arundel Corporation, Baltimore, has submitted the low bid at 9.84 cents per cubic yard for dredging a section of the inland waterway from Norfolk, Va., to Beaufort Inlet in North Carolina, according to Colonel Jewett, United States District Engineer at Norfolk. The work will involve 2,813,250 cubic yards in the Pamlico River-Bay River section in Beaufort and Pamlico counties, North Carolina.

Open Bids November 17 for Y. M. C. A. Building.

Beaumont, Tex.—The date of receiving bids on the new \$400,000 building here for the Young Men's Christian Association, T. N. Whitehurst, chairman of the building committee, has been extended from November 5 to November 17. The proposed structure will be 4 stories, of brick, reinforced concrete, steel and cast stone. Tisdale, Stone and Pinson, of Nashville, Tenn., and Beaumont, are the architects.

Some Views of Manufacturers on Prohibition and Labor Turnover.

The MANUFACTURERS RECORD recently sent a circular letter to a number of industrial organizations calling attention to an editorial which had discussed the effect of Prohibition on labor turnover. Some interesting replies have been received. All except three of the writers believe that Prohibition has done much to elevate the living standards and improve the home life of industrial workers; two of these three refrained from commenting, and one expressed strong opposition.

Cyrus J. Rath, Superintendent of Labor and Safety of the Reo Motor Car Company, Lansing, Mich., said in part:

"Our employees are morally, socially and economically far better because of the Eighteenth Amendment. We know that this amendment adequately enforced would be the greatest boon that has ever been given to the factory worker, his wife, his family and his creditors.

"We know that our employees' standard of living is better today than ever before. They are purchasing homes, automobiles, upholstered furniture, musical instruments, radios, vacuum cleaners, washing machines, etc. So many employees are driving their own autos to work that the parking problem is getting to be serious. In the saloon days about 28 to 30 per cent were owning or buying their own homes. Today this percentage is better than 67. Yes, these homes in most cases are modern, with gas, electricity, sewers and bath tubs. Vacations are enjoyed by the whole family in healthful recreation via the automobile and other modes of travel.

"We have factory thrift clubs, Christmas Saving Clubs and other organizations primarily for establishing nesteggs, something unheard of during the days of the open saloon.

"Our workers' children are being sent to school, fully clothed, have plenty to eat; a large number of them carrying nickels, dimes and quarters to be placed in school savings accounts to their credit. Nothing like this in the days of the saloon.

"More milk is sold to our employees during working hours than ever before. In fact we face trouble in meeting present demand efficiently.

"Absenteeism has been reduced to a minimum since the days of the saloon. No more blue Mondays, wondering if a certain number of skilled men, including foremen, will be back in time to start off the week's production. Tardiness is practically eliminated.

"Our accident records show that since the Eighteenth Amendment became effective not one injury or accident was caused by either temperate or excessive drinking. Our frequency and severity rates are getting lower and lower each year.

"Our labor turnover, averaging from 20 to 30 per cent per year, for the past four or five years, against 100 to 200 per cent during the saloon days, is sufficient proof that prohibition is aiding materially in the stability of the factory worker.

"An employee who gets intoxicated now is a rare bird. We have seen more drunks on a single Saturday evening during the saloon days than in all the years since prohibition became a law.

"During the pre-Volstead days, a large number of our employees, some pay days running as high as 25 per cent, would get their checks cashed at saloons. Today, the endorsers of Reo pay checks are the grocers, the meat markets, the dry goods stores, the clothing stores, the insurance companies and the banks—surely a positive indication that the wives and children are the greatest beneficiaries under prohibition law.

"We hear so much these days about modification of the prohibition law that it might be interesting to you to know the opinion of our president and general manager, Mr. R. H. Scott, on modification. In an interview the writer had with Mr. Scott recently, this question was asked: 'Do you favor modification of the prohibition law and why?' His interesting answer was: 'I do not. I have lived through years of the open saloon, I have seen Canada, both under license and the present government control law, and now have enjoyed prohibition law for eight years in the United States. We are so much better off today than countries where license

or control exists, or when we were dominated by the liquor interests, that it would be foolhardy to modify, even in the slightest, our present Volstead law.'

"In conclusion, we do not mean to say that prohibition is enforced effectively all over the country. We realize that there is an abundance of drinking in the land. However, we do not believe the industrial worker is the big law violator. Many of the so-called good citizens think prohibition is all right and good for the country as a whole but they personally do not need it. So they violate the law and ask no questions. They nullify a law which they support with words and often with votes. It isn't our industrial workers who bring disrespect to law observance. Education on the seriousness of crime must be given to those who are economically more fortunate. Elect honest and fearless officials, who are in sympathy with the law and who will mete out sure and just punishment to the real offenders."

This writer's account of the effect upon family life is reminiscent of the remark of a Georgia newspaper man, who said that when he hears wives and children say they hope daddy will come home good and drunk, he will vote for liquor, but not before.

The view of the Reo Motor Car Company is amply corroborated. David D. Lupton, vice-president of David Lupton's Sons Company, Philadelphia, writes:

"We are glad of the opportunity to add our testimony to the benefits of prohibition in relation to the workman in the factory.

"We find our men more punctual, more tractable and reasonable. Fewer accidents, less turn-over, morale infinitely higher, home conditions vastly improved, more independent financially, very many have savings accounts and are owners of homes and automobiles.

"It is our firm opinion that the blessings due to national prohibition are too numerous to be counted. It is underlying the present prosperous condition of our country."

E. N. Foss, president of B. F. Sturtevant Company, Boston; W. E. Mack, Superintendent of Service, the Carborundum Company, Niagara Falls; John T. Woodside, President, Woodside Cotton Mills Company, Greenville, S. C.; J. P. Reeves, Treasurer, Chicago and Eastern Illinois Railway Company, Chicago, and D. H. Campbell, mining engineer, Iron River, Mich., strongly and unconditionally support the view that prohibition, badly as it is enforced, is a great blessing to the wage-earning class.

The slackness of enforcement is recognized by most of the writers. The remarks on this point by W. J. Harahan, president of the Chesapeake & Ohio Railway Company, Richmond, Va., are typical. Mr. Harahan writes:

"While there may have been some laxity in the enforcement of the Volstead Act, conditions as a whole show a great improvement in comparison to those existing prior to the enactment of the Prohibition law and the demoralizing effects of the use of intoxicating drinks are considerably less than formerly. And it is our opinion that the railway company, its employees and their families are the benefactors of the operation of this law, although the conditions with respect to its enforcement are not yet ideal."

In addition Mr. Harahan writes:

"A survey of the present day conditions indicates that there has been very little, if any, change in the situation since my letter to you of April 13, 1926, copy attached." That letter contained the following:

"I am very glad to say that the result of our investigation strongly confirms my previously expressed opinion as to the benefits resulting from prohibition, even though imperfectly enforced. Our men have been more steady, working with greater regularity, and the conditions of their families have unquestionably been greatly improved. The difficulties formerly experienced in manning our shops and trains on and

immediately subsequent to pay days and holidays have very largely disappeared. Train and other accidents, in which intoxication was the primary or contributing cause, have been very greatly reduced.

"The conditions in our mining districts have been particularly improved, there being less drunkenness on the trains and in the mining camps along the line."

C. C. Stoll, President, Stoll Oil Refining Company, Louisville, corroborates all that has been quoted above regarding the improved home conditions, efficiency and earning capacity of wage earners. He then said:

"If Herbert Hoover is elected President of the United States, as I sincerely hope and believe he will be, it should be recommended to him that the Government itself discover through a fact finding commission, the real steps as to the blessing or curse of Prohibition, so that the people themselves may have a correct and first-hand report of the situation. If I am not mistaken, Mr. Hoover in his discussion of this subject, has perhaps in mind to do this very thing and then the people will be advised that the propaganda on the part of brewers and others financially interested in the sale of liquor is based on untruth."

"It is a pity that some people cannot appreciate what a terrible calamity would come to these United States if Governor Smith's proposal of state rights in the liquor question should be adopted. I am believing that the common sense of the people of these United States will not permit them to be misled into believing the misstatements that are continually made about Prohibition."

"Nine years is entirely too short a period in which to judge any great moral or economic change," says George M. Verity, President, American Rolling Mill Company, Middletown, Ohio. And he adds:

"It will take a generation or two before we can properly judge it. That, of course, does not prevent our trying to find some remedy for the 'apparent ills in the situation.' There certainly must be some way to provide better enforcement."

D. Robert Yarnall, Yarnall-Waring Company, Philadelphia, says:

"Discharge for intemperance has almost disappeared in our factory. Our men are healthier, drive their own cars, observe shop hours more regularly, and their home life and general contentment have improved."

"Evils attend the present system which attempts to enforce the Eighteenth Amendment, but I am convinced these evils cannot be charged to the rank and file in American industry."

"It is inconceivable that so many of our prominent business and professional men should selfishly cry for so-called 'personal liberty' when a disinterested investigation such as Mr. Kelley has made would disclose such outstanding advantages for prohibition."

Very much in the same vein is the letter of J. Wesley Masland, Secretary, C. H. Masland & Sons, Inc., Philadelphia. Says Mr. Masland:

"Since the enactment of the prohibition law intemperance has practically ceased to be a consideration with us. It is true that we see some of the evidence on the streets around some of the sources which have not been dried up, which indicates that there is a class of idlers who are the victims of the low grade liquor which is to be had, but such cases are small in number and are not representative of the general labor supply. If the liquor which reaches this class and that other group which is defying the law through their ability to pay the price could be eliminated we would be taking another step in the right direction."

The one dissenting voice in our replies came from Philo C. Fuller, P. C. Fuller Company, Grand Rapids, Mich. The substance of Mr. Fuller's letter is contained in the following paragraphs:

"As you are aware from my letter published in 'Has Prohibition Justified Itself?' and 'Slanders Against Prohibition Refuted,' I did all I could not only to pass the dry law in Michigan before the Volstead Act, but also for the Volstead Act."

"But, certainly the Prohibition Act has not been a success and not only myself but my friends are greatly disappointed and here in Grand Rapids there are more cocktails served in the private homes than ever before, more drinking among the young people, and the Volstead Act cannot now be enforced, principally because of the wording of that Act, which states that the 'seller' is liable and not the buyer, and also from the fact that the Republican Party did not try to enforce it during

the Harding Administration, where it was most corrupt; but during the Coolidge Administration it has never been enforced until the last three months."

"The furniture manufacturers here feel as I do, not only in regard to the Volstead Act which they were in favor of at the time, but in regard to Governor Smith as a Presidential candidate."

Mr. Fuller further expressed the opinion that if elected Governor Smith would enforce the prohibition law more effectively than it has been enforced so far. It is to be noticed that Mr. Fuller's principal objection seems to be based upon inadequate enforcement of the Volstead law, rather than on the general plan of prohibition.

Miami's Business and Building Progress.

Miami, Fla.—Signs of prosperity and increased building and industrial activity in this section have been briefly reviewed by Hollis Bush & Co., as follows:

"During 1928 Miami Beach building permits will probably total \$3,000,000, and at least \$2,500,000 will be for residences. The financial statement of the city shows a bank balance of over \$1,250,000. A local street railway company handled 30,000 more people in September, 1928, than in August. During the past four weeks 800 electric meter connections have been made. There are 500 more telephone subscribers than there were a year ago. The public schools of Dade County have 22,000 pupils, which number will be increased as the winter visitors arrive; this compares with an average attendance of 23,000 during the boom year of 1925. Reliable and substantial merchants are gradually getting on the right side of the ledger."

"Building continues active in Miami Beach, and well located houses for rent are at a premium. Despite the recent storm damage in other sections, it is felt there will be a fair amount of real estate activity this winter here and in Miami Beach."

"The Pan-American Airways, Inc., are spending \$150,000 on a modern and thoroughly equipped airport. The air depot will have all the conveniences of a big railroad station and should be ready for use in December. The company has ordered 20 tri-motored Fokker 12-passenger planes, costing about \$1,250,000, said to be the largest order for airplanes for civil use ever placed in this country. Miami will be the northern terminal of the company's lines to carry mail, passengers, and freight to South and Central America. It is developing a Class 'AAA' field and industrial section. The field will be ready for day and night flying by January; two large companies will maintain passenger service and one company will operate a flying school."

"There is over \$50,000,000 on deposit in the Miami banks, and the recent statement showed them to be in good condition with an unusually high degree of liquidity. We are in no way discouraged because of the two serious natural disasters of the past three years, and we expect to go forward steadily on an increasingly firm foundation. The foregoing are some of the answers that might be made to the question raised some time ago as to what might become of South Florida if it suffered another hurricane."

Bids on Mississippi A. & M. College Buildings.

Starkville, Miss.—The Mississippi Building Commission, Jackson, has authorized the office of Claude H. Lindsley, architect, also of Jackson, to advertise for and receive bids until November 22 for the erection of three buildings for the A. & M. College here. The structures will include an agricultural experiment station, 4 stories, 55 by 136 feet; boys' dormitory, 3 stories, 63 by 207 feet, with a one-story service wing 62 by 98 feet, and an agriculture building, 3 stories, 63 by 190 feet. Construction will consist of reinforced concrete skeleton frames, brick curtain walls, composition and tile roofs and terra cotta trim. Plumbing, heating and wiring will also be included. Plans and specifications may be obtained from the office of the architect.

Contract for \$750,000 Atlanta Building.

General contract has been awarded by the Rhodes-Haverty Company, Atlanta, to the Southern Ferro-Concrete Company, of that city, for the erection of a proposed \$750,000 fireproof office building at Peachtree, James and Forsyth streets,



17-STORY RHODES-HAVERTY BUILDING, ATLANTA.

Atlanta. The structure will be 17 stories and basement, with a 3-story tower, of irregular dimensions, reinforced concrete footings and brick foundation, structural steel frame, granite base, face brick exterior and terra cotta trim. Terrazzo, tile and cement floors will be used, and the structure covered with a 5-ply tar and gravel roof. Pringle and Smith of Atlanta are the architects.

\$1,000,000 Jewish Temple Proposed in St. Louis.

St. Louis, Mo.—Committees of Temple Israel, Shaare Emeth and B'Nai El congregations here are considering consolidating and erecting a synagogue to cost more than \$1,000,000. Leo C. Fuller has been elected chairman of the consolidation committee.

\$800,000 Bank and Office Building for Nashville.

Nashville, Tenn.—Plans are being prepared by Ludlow and Peabody, New York, for a new \$800,000 bank and office building here for the Fourth and First National Bank, on which construction will begin about January 1. The building will be 15 stories, 100 by 85 feet, of stone and steel construction.

Ceramic Conventions and Exposition.

Chicago, Ill., October 27—[Special.]—Creation of a "ceramic minded America" is given as an objective of the annual conventions of the American Ceramic Society, the Common Brick Manufacturers Association and affiliated organizations to be held here, February 4 to 9, inclusive, with an American ceramic exposition at the Stevens Hotel. Information and details can be obtained from the American Ceramic Exposition, 37 West Van Buren street, Chicago.

Cotton Envelop Brings Zeppelin Across.

New York, October 27—[Special.]—Sixty thousand square yards of cotton are computed to have been used in making the outer envelop and the gas cells of the great dirigible Graf Zeppelin, which recently sailed across the Atlantic from Germany to the United States. Of this total, 20,000 yards were used in the outer envelop.

In the fabric, weighing three ounces per square yard and woven 52 inches in width to minimize the number of seams, the cotton was treated with a cellulose preparation, to shrink it tight over the metal skeleton of the ship. It then was treated with aluminum paint, to deflect the sun's rays and as waterproof. The gas cells cotton was of lighter weight, lined with gold beater's skin, to make them impermeable.

Institute to Aid Cellulose Study Urged.

Organization of a Cellulose Institute to engage in research, and financed jointly by the lumber, cotton textile and paper industries was urged by Dr. Charles H. Herty, advisor to the Chemical Foundation, Inc., in an address at a recent dinner of the Engineering Foundation at the Union League Club, New York. Dr. Herty outlined the great number of products being made of a cellulose base and stated that practically nothing was being done in the way of research. He said that Canada had shown the way in the founding of the Cellulose Institute at McGill University in Montreal, which is being supported by the Canadian Lumbermen's Association, and that the United States should profit by this example.

Daytona Beach, Fla., has sold an issue of \$344,000 6 per cent improvement bonds to the Brown-Crummer Company, Wichita, Kan., at a premium of \$3500, the sale being made through the Merchants Bank and Trust Company of Daytona Beach.

10,000 Tung Oil Trees on Cutover Pine Lands in Louisiana.



Partial view of 10,000 tung oil, or Chinese wood oil, trees growing on a 100-acre tract owned by the Great Southern Lumber Company near Bogalusa, La. The trees were planted as one-year-old nursery stock last January and now show this year's new growth of about six feet. The mile-long rows are 25 feet apart with trees 12½ feet apart in the rows.

The oil pressed from the nuts of the trees is an important constituent of waterproof varnishes and paint liquids. The varnish manufacturers of the United States annually import from 12,000,000 to 15,000,000 gallons of this oil from China, it is said, and the price usually ranges much higher than that of any other drying oil used in the industry. It is declared to be a more rapid drying oil and to give a higher gloss and a more waterproof film than any other similar material used.

This species of wood growth was introduced into the United States through the Botanical Gardens of Washington, D. C., some 20 or 25 years ago. The statement is made that every test on pine lands of the South has shown a rapid growth and prolific yield. One tree near Gainesville, Fla., produced last year 360 fruit at the age of three years.

Associated Industries Works for Florida.

Expansion and stimulation of its activities in all parts of Florida by the Associated Industries of Florida is announced by Wilkie J. Schell, president, in the initial issue of "Florida Industry," described by the organization as "a bulletin of industrial information, devoted to the promotion of industrial peace, prosperity and progress in the State of Florida." E. T. Lay is executive secretary of the organization, with headquarters at Jacksonville.

In "a word of explanation to new friends," Mr. Schell says the Associated Industries now represents an investment of approximately \$60,000 and eight years of work in promoting industrial peace and prosperity. "It has for its object the advancement of the interests and welfare of its members and the promotion of business and industrial prosperity of the State as a whole," says Mr. Schell, "and speaks for them before Congress, at the State Legislature, before the Interstate Commerce Commission, or wherever united representation is required." The organization "is firm in its belief in the American Plan Open Shop principles of employment and is committed to the support and promotion of this principle among its constituents as one of its major activities."

Also, the Florida Industrial Council, a federation of Florida trade and industrial associations, has been organized and is operating under the Associated Industries of Florida.

The officers and directors of Associated Industries are: President, Mr. Schell; vice-president, John L. Wilkes, president Jacksonville Terminal Company; treasurer, C. R. Simonds, president H. & W. B. Drew Company; C. J. Olmstead, president Olmstead Motor Company; N. Von Glahn, vice-president Arnold Stone Company; W. T. Hadlow, contractor; H. G. White, general agent Clyde Steamship Com-

pany; John L. Doggett of Doggett & Doggett; F. C. Groover, president Groover-Stewart Drug Company; C. W. Dixon, president Interlocking Tile Company; J. P. Ingle, manager Jacksonville Traction Company; Claude Nolan, Cadillac cars; H. H. Simmons, real estate; H. M. Wilson, vice-president Baldwin, Lewis, Pace Company; Paul M. Pope, treasurer Bankers National Life Insurance Company; John D. Baker of Baker & Holmes Company, past president.

Agricultural Workers to Meet.

As secretary-treasurer of the Association of Southern Agricultural Workers, J. C. Pridmore, Atlanta, Ga., announces that its next convention will be held in Houston, Tex., February 6 to 8, next. The organization serves as a general clearing house for agricultural ideas and information and provides opportunities at its annual meeting for research workers and others in the South to discuss problems, exchange views, and co-ordinate plans for further development of agricultural interests of this great agricultural area.

Census of Beet Sugar Manufactures, 1927.

The Department of Commerce census of manufactures taken in 1928 shows that the establishments engaged primarily in the manufacture of beet sugar in 1927 reported products valued at \$104,926,584, a decrease of 20.7 per cent as compared with \$132,339,012 for 1925, the last preceding census year. The total value for 1927 is made up as follows: Sugar, 899,396 tons, valued at \$98,584,598; molasses, 76,391 tons, \$692,271; beet pulp, 1,226,046 tons, \$4,345,320; miscellaneous products, \$1,236,298.

Railroad Employees Would Have Interstate Motor-bus and Truck Transportation Regulated by Federal Government.

St. Louis, Mo., October 26.—About 30,000 employees of the St. Louis-San Francisco Railway Company have undertaken to bring the next Congress to a realization that a "just and fair" regulation of bus and truck companies in interstate traffic is imperative because this form of transportation is making deep inroads into the earnings of their railroad. Petitions addressed "To Our Senators and Representatives in Congress" are being circulated by employees of the railroad among their fellow-workers. The petitions set forth the efficiency and dependability of rail transportation and state further:

"There has recently sprung up all over the country a competition on the part of unregulated companies, many of them irresponsible, undertaking to haul freight and passengers in interstate commerce for hire by means of buses, trucks and publicly operated automobiles in direct competition with the railroad companies. * * * This unregulated competition is not only endangering the well established, dependable and permanent railroad service, but endangers the lives and limbs of the public generally and in case of serious accident, leaves the injured passengers or members of the public without financial protection. It is not fair that the railroads should be destroyed or their service seriously impaired by such unregulated competition."

The petition specifically asks Congress to include in the proposed bill for the regulation of buses and trucks:

(a) Proper protection against financial irresponsibility; (b) a fixed schedule upon which the public can depend to be furnished in season and out; (c) a proper tariff of freight and passenger charges subject to the regulation of a proper commission; (d) careful inspection of all motor vehicles to make certain they are safe for the uses to which they are devoted; (e) proper investigation as to the mental and physical qualifications of the driver of such vehicle for such service; (f) the provision for some regulatory body or bureau analogous in some respects to the Interstate Commerce Commission, which can see that such transportation companies are efficiently, fairly, conservatively and dependably operated, and to the end that in serving the public no unnecessary damage or loss be inflicted upon other transportation companies; (g) an adequate tax consistent with the value of the use of the public highways of the nation by such transportation companies, such tax to be used first for the payment of the proper supervision, and, secondly to assist in maintenance of the highways; (h) proper regulations covering the weight, width and size of such vehicles and prescribing safe speed regulations.

The idea for this concerted effort on the part of rail employees was originated, it is said, by William Marsh, Memphis, Tenn., veteran dispatcher for Frisco Lines, and president of the Veteran Employees' Association of the railroad. The petitions are being handled by 65 Frisco Employees' clubs at all points on the railroad. They will be recalled on November 15, when the number of signatures will be tabulated, and the various petitions sent on to Washington to the senators in the nine States served by the Frisco.

Organize Southern Section of International Association of Electrical Inspectors.

N. E. Cannady of Raleigh, N. C., was elected president of the Southern Section, International Association of Electrical Inspectors, organized in New Orleans, October 22. L. T. Rogers of Shreveport and H. N. Pye of Atlanta were elected vice-presidents and C. S. Crawford of Gretna, secretary-treasurer. The purpose of the organization, as laid down by the by-laws, is the "formulation of standards for the safe installation and use of electrical materials, devices and appliances."

Organization details were developed by George Welman

of the Louisiana Rating and Fire Prevention Bureau. L. F. Griffith, assistant engineer of distribution of New Orleans Public Service, Inc., in a short talk, said that inspection laws and regulations should be considerably simplified. About 90 per cent of the present regulations should be abolished, he said.

The executive council of the new organization includes H. N. Lang of Orlando, Fla.; Paul L. Muller of New Orleans, H. C. Reynolds of Mobile and L. T. Griffith of New Orleans.

L. O. Crosby Urges Mississippi Voters to Vote for Hoover.

Picayune, Miss., October 27—[Special.]—Announcement of his support for Herbert Hoover, with reasons for his opposition to Governor Smith, is made by L. O. Crosby, president of the Mississippi Development Board, in a statement, in the course of which he said:

"A careful consideration of the two Presidential candidates and the principles which they advocate, their ability and their respective affiliations, has led me to the conclusion that Governor Smith does not represent the highest ideals of Americanism; that the principles which he has injected into the campaign since his nomination for President are repulsive to and subversive of true Democracy and do not represent the ideals of the South, but rather bear the earmarks of a conspiracy between a group of wet Republicans who could not get what they wanted within their own party and have united with a group of Democrats who oppose the principles for which we stand. * * *

"Mississippi was the first State to ratify the Eighteenth Amendment. Our forefathers fought for prohibition for a generation and more. The safety of this nation and of the high ideals for which it stands and which have made it the greatest nation on earth are more dependent upon Christian faith than upon any other support. Christianity is the greatest and safest insurance policy any nation can have. Money cannot buy such protection. * * *

"Never before, within my memory, has the South been asked to repudiate its principles and vote for a man for President on the Democratic ticket who was Speaker of the House of Representatives in his home State when a law was enacted permitting the inter-marriage between negroes and whites, and placing negroes on a plane of social as well as economic and political equality with the white race.

"The manner in which the campaign is being conducted convinces me that to follow the group now claiming to carry the Democratic banner would be a step toward the ultimate downfall of the Nation. * * *

"Must I consent to deliver my party to, and follow, a group of wet Republicans, drawn from the largest money corporations of the world, who repudiate and seek to destroy the highest ideals of their own party, as well as of mine, in order to be a Democrat? Must I lend my assistance to arouse the deepest prejudices of the human heart by waving the bloody shirt of the '60's against a man then unborn, in order to be a Democrat? * * *

"If these and other things are demanded of me—and they are, if I support Governor Smith and follow the lead of those now in charge of the campaign in Mississippi in his behalf—then, I must answer, 'No.'

"I had the honor of being associated with Mr. Hoover during the 1927 flood in the Mississippi Valley. I am in a position to know something of the inestimable service which he rendered the flood sufferers in Mississippi during the greatest peacetime disaster this section of the United States has ever faced. Mr. Hoover's ability is unquestioned. His sympathetic understanding of the needs of the common people is undoubted. The Republican party is to be congratulated on its choice of a leader and Democrats should be happy that we have such a man whom we may support when we can no longer follow the nominee of our own party in his program of destruction of the principles of that party.

"I unreservedly join the Anti-Smith Democrats, and urge the good people of our State to forget partisan politics and support Mr. Hoover, who pledges himself to uphold the principles dear to us, which principles Governor Smith and his associates now seek and propose to destroy. I shall work and vote for Mr. Hoover."

Letters From Our Readers

He Doesn't Trust Prohibition's Foes.

National Steel Fabric Co.

San Antonio, Texas.

Editor Manufacturers Record:

I want to express to you my admiration for your attitude in this Presidential contest. Am a Democrat. I marched in a Tilden "torch-light parade" in my native State, Pennsylvania. I cast my first vote for Hancock, 1880. I never voted a national Republican ticket.

I moved to Kansas in 1888 and was appointed assistant county attorney and served for some seven years in that capacity, a large portion of my service being in enforcing Kansas' prohibitory laws. I know that Prohibition can be enforced and its moral and economic benefits "made manifest" when officers in sympathy with it in good faith try to enforce it. It can be enforced; my experience proved it, but it will not be enforced by its enemies.

So when a candidate for President, hostile to Prohibition and to the Eighteenth Amendment and to the Volstead Act, declares he will "live up to that oath to the last degree," he is simply not to be believed. Few, indeed I think none, can be trusted to enforce a law in which they do not believe, for "where the treasure is, there will the heart be also." There can be only one course for those "drys" who believe in Prohibition, who wish it to stay and to be enforced, and that course is to vote against the man who stands for wiping Prohibition out.

SAMUEL H. SMITH.

Prefers Smith to Hoover.

Steinke Bros. Mfg. Co., Inc.

Peoria, Ill., October 23.

Editor Manufacturers Record:

I am very sorry to know that your publication stands for the election of Herbert Hoover.

Since our prosperity is so segregated and the MANUFACTURERS RECORD represents all industries, I can't understand why you find it consistent to support the Republican nominee. In all of his utterances up to the time of his New York speech he has not expressed himself openly and clearly on a single issue. Any 500 words of any of his speeches have been as good as any other 500 words.

Of course the very few large corporations can easily interpret what Mr. Hoover has said, but anyone representing all of the corporations most surely must look to Al Smith for an understandable way to equitably distribute the prosperity which the Republican party has so loudly acclaimed.

WALTER J. BECKER, Vice-Pres. and Secy.

The Country Facing a Great Issue.

Millen Iron Works.

Millen, Georgia.

Editor Manufacturers Record:

I do not know how it would be possible for me to get along without reading the MANUFACTURERS RECORD each week, in view of its attitude on the Federal Reserve Board as well as its decided stand against Al Smith. While I was born and reared in Georgia, I feel that there never before has been such an issue facing the American people, and that all good people should go to their knees feeling that there is nowhere else to go except to the polls on November 6 and vote for Hoover, regardless of politics.

R. A. MOORE.

The Question of Thirst.

The Riddle Engineering Co., Inc.

West Palm Beach, Florida.

Editor Manufacturers Record:

I appreciate the MANUFACTURERS RECORD more than ever on account of the stand you are taking on the Prohibition question. The MANUFACTURERS RECORD is about the only publication available here in the South that gives an honest and thorough analysis of this question. Most men are just "big boys" and it is hard to believe that with the many other questions involved in the selection of a President of the United States, the question of "thirst" should enter.

I can see you are being severely criticised on one side, but

as a general rule the saner people are not inclined to express an opinion publicly, so you have reason to believe that you are to be rewarded for being on the right side.

KARL RIDDLE, President.

Election Likely to Be Close in Virginia.

Shenandoah Publishing House, Incorporated.

Strasburg, Virginia.

Editor Manufacturers Record:

Please accept our congratulations on your numerous editorials covering the present political campaign.

This county, Shenandoah, will undoubtedly go two to one for Hoover, although, normally, it is about evenly divided. The Seventh Congressional District should give Hoover at least a thousand majority. I cannot speak for the rest of Virginia, but reports from some sections are very favorable for Hoover; and regardless of how the State goes, it will undoubtedly be very close.

Press dispatches have stated that all the papers in Virginia are for Smith, but this is true only with the daily papers. In the Seventh Congressional District, there is but one weekly paper which is favorable to Smith. Several are silent. Out of the other nine, two or three are more or less silent, and the remainder are for Hoover.

E. E. KEISTER, President.

A Contrast Between Saloon Days and the Present by a Former Anti-Prohibitionist.

San Antonio, Texas.

Editor Manufacturers Record:

I notice that you are making a wonderful fight for Prohibition, which is just and right.

The writer was formerly a citizen of Shreveport, La., a town at that time of probably 28,000 people, and with 145 licensed saloons. I was an anti-prohibitionist, which was very hard to be in Shreveport, occupying the position I did, with all my real friends in Shreveport prohibitionists. I was an anti openly, and my friends knowing my sincerity and honesty of purpose did not lose respect for me, and did not in any manner offer me insult of any sort; all the ministers and my best business associates and friends were prohibitionists and still held me in high regard. I was an anti because I did not think Prohibition would do any good whatever.

Even with the immense amount of money spent by the saloon people and the bitter fight made, Shreveport went dry; and it did not take long for one to see the wonderful benefit Shreveport was deriving from being a dry town. To note the absence of drunks hanging around the streets was indeed a relief. Previously we could not permit our ladies to go on the streets after dark unescorted, but not long after Shreveport went dry they could go at will, without any fear whatever.

Travel on some of our best trains in saloon days was obnoxious, but since the Volstead Act has gone into effect, it is a rare thing to see a drunk on a passenger train, and ladies can make trips knowing they will not be insulted. I travel all through the South and it is a rare thing now to see a drunk man on the streets, but in saloon days one found them piled up along the business thoroughfares, hanging to lamp posts and falling in the gutters, and how a thoughtful man now can be anything but a prohibitionist I cannot see.

Again, there are hundreds of thousands of families getting the benefits of earnings that before the Volstead Act went to the saloon. These families are not only buying homes but automobiles, and have comforts they did not have before. For God's sake keep up your fight. But the Volstead Act in my judgment should be made even stronger; more severe punishment should be meted out to violators and to officers who accept bribes.

If people of this country who live near Canada would take a trip up through that country and see the drunks on the train, they would be disgusted. I have seen them and I sincerely hope for the good of America that the Volstead Act will always remain in force, and that Congress will pass another law putting more teeth into the statutes that bite the offenders and violators of that law.

S. A. GUY.

IRON, STEEL AND METAL MARKET

Steel Mills Now Catching Up With Orders—Production Is Still High.

Pittsburgh, October 29—[Special.]—The volume of steel buying has tapered off still more noticeably in the last week and it is now clear that September witnessed the heaviest pace of actual engagements by buyers. Some mills reported an increase in bookings early in October but that must have been due to belated entering of orders, or the entering of rail contracts, which are simply seasonal or routine in character.

Mills ended September well provided with actual shipping orders and in some cases were three to five weeks behind-hand in filling orders. This gave them such momentum that even now there is no really noticeable decrease in the pace of steel production, which is distinctly the highest ever witnessed in the second half of any year. It merely falls slightly below the highest rate of early this year.

There is no occasion for material change in the forecast of a fortnight ago that this year's steel production will run 5 to 7 per cent above that in the record year, 1926, and 12 to 15 per cent above 1927. That forecast included allowance for somewhat diminishing production in November and December, which is the usual seasonal experience and is now in prospect.

The Roxana Petroleum Company has ordered 450 miles of 10-inch line pipe, amounting to about 45,000 tons, from Pittsburgh and Youngstown mills, for an oil line to run from McCamey to Houston, Tex.

Fabricated structural steel lettings reported in the trade last week totaled 25,500 tons, making a light week after four moderate sized weeks. Department of Commerce monthly reports, covering the whole fabricated structural steel industry, showed that there was a period of remarkable activity for five months, May to September inclusive. August was the highest month in all time while September ran only below August and below July of last year. The five months ran 17.6 per cent above the same months of last year, while the first four months of this year had run 4.4 per cent above 1927.

The official reports show that automobile and truck production in the United States and Canada was 434,915 in September against 492,601 in August, the record month for all time. Whether there was actually a decrease in the rate of production is a question, for September had about 15 per cent less factory working time. Production has been only slightly lower this month but a considerable decrease is certain for November, as indicated by lighter buying of steel. Chevrolet has begun buying steel for the new model, soon to get into production.

Not much rail buying has been reported in the week, but placing of some large orders is imminent. The seasonal buying movement has come a little later this year than last and thus far has been of slightly smaller volume, comparing orders of individual roads. There is a little freight car buying, but this is a small matter nowadays. Freight car buying in the last three years has represented only about 3 per cent of the total steel production.

Finished steel prices are firmly held, prices in several lines having been advanced for the present quarter. Further advances, for the first quarter of the new year, will be attempted, it being already clear that bar, shape, plate, sheet and strip mills will seek higher prices. The sheet market is fairly steady, which means that it is doing relatively well as it is the usual experience for there to be some shading. It is doubted whether wire mills are fully succeeding in their effort to secure \$2.65 from ordinary carload buyers, the regular price basis to distributors being \$2.55.

Heavy melting steel scrap delivered Pittsburgh district has

softened after its notable advance of \$4 a ton in three months. A little over a fortnight ago sales were made into consumption at \$18, while dealers would now sell at \$17.50 while they have no occasion to bid over \$17 on odd lots to cover short contracts.

Valley merchant furnaces are talking higher asking prices on pig iron but there is little demand, not enough to furnish a test.

Production of Pig Iron Somewhat Heavier.

Birmingham, Ala., October 29—[Special.]—Furnace interests hope there will be a turn for the better in pig iron quotations before selling into next year starts. Production is being maintained at a greater pace than last month and there is active delivery of foundry iron, melt of which is still steady although one of the larger interests asserts there has been lagging of demand for cast iron pressure pipe; also, another interest is operating its shop in radiation considerably under some few weeks ago. Unfilled tonnage in pipe, however, warrants considerable melt of iron. Reports from other sections, especially Chicago, are to the effect that advance in iron prices has taken place and there is still a good demand. The price-base here continues at \$16.25 per ton, No. 2 foundry, but sales are being limited to this year's delivery. Indications are that books will not be opened for 1929 requirements for another fortnight.

In steel there is activity, though the Ensley Works of the Tennessee Coal, Iron & Railroad Co. was closed down more than two weeks ago, demand for rail being practically nil. Sheet, plate, track fastenings, structural steel and smaller shapes in general are enjoying good patronage. Steel fabricating shops have business in hand and in sight to warrant operation through the remainder of the year and longer. The larger steel working plants have much tonnage in hand for industrial projects throughout the South and contemplate further business from this source; Birmingham is fabricating steel for the big rayon plant being erected near Asheville, N. C., for large buildings in Atlanta, Tampa, Memphis and other places, for a paper mill in Mobile and for many other projects. Also, tankage for oil storage in the fields of Texas is being fabricated here. The Warrior river barge service is developing a larger territory for steel products of the district; this promises to provide business for an indefinite period.

The coal industry still reports lagging conditions. The year will not make a favorable showing in comparison to last year and previously. Steam coal requirements are far from being as favorable as might be expected, domestic coal consumption showing a little improvement as cooler weather sets in. Domestic production, the smaller portion of the entire output of mines, is being kept steady to meet immediate demands. Coke is showing increased consumption as domestic fuel though it is not possible for this outlet to absorb the entire production. Manufacturing purposes still call for much coke and all by-product coke works of the district are in operation, with one or two going almost to capacity.

Scrap iron and steel is fairly steady, dealers selling through the remainder of the year though watching tonnage in some of the items on the old material list. No dearth of scrap is probable in this section.

A few industrial leaders asked as to prospects of coming year, yet 60 days and more off, are inclined to look forward to greater activity than was enjoyed this year.

Completion of the 10 cotton mills of the Alabama Mills chain, located in 10 little towns and cities of the State, is rapidly approaching, machinery having been tried out in

four mills already. The plans are to have four in operation within six weeks and all 10 going in January. General headquarters will be maintained in Birmingham, officials of the corporation to have offices here. Assembling of the labor required, upwards of 2500 people, is now under way; indications point to sufficient labor power in the various neighborhoods where the mills are located.

The big paper mill and bag factory at Tuscaloosa, Gulf States Paper Co., will be completed and ready for operation in the next six weeks also, all schedules being maintained by contractors.

Pig iron and iron and steel scrap quotations follow:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$16.25; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.75; iron of 2.75 to 3.25 per cent silicon, \$17.25; iron of 3.25 to 3.75 per cent silicon, \$17.75; charcoal iron, f. o. b. furnace, \$29.00.

OLD MATERIAL.

Old steel axles	\$16.00 to	\$17.00
Old iron axles	16.00 to	17.00
Old steel rails	11.00 to	12.00
Heavy melting steel	10.25 to	10.75
No. 1 cast	14.00 to	14.50
Stove plate	13.00 to	13.50
No. 1 railroad wrought	9.50 to	10.50
Old car wheels	12.00 to	12.50
Old tramcar wheels	12.50 to	13.50
Machine-shop turnings	8.00 to	9.00
Cast-iron borings	8.00 to	9.00
Cast-iron borings (chem.)	13.00 to	13.50

COPPER A STRONG FACTOR.

Prices Continue Advance Under Heavy Demand—Other Favorable Conditions.

New York, October 29—[Special.]—The extreme strength of copper has occupied interest in metal circles almost to the exclusion of the other metals the past week. Moreover, the attention of the entire business world has been attracted to this metal, which appeals to the eye of those artistically inclined and appeals to the pocketbooks of the investors in the same. Copper, which has been the weak sister of the metals for several years since the war, has turned out to be a Cinderella.

Prices have been raised twice the past week and by $\frac{1}{4}$ c per stage as against $\frac{1}{8}$ c per pound per stage in former times. The new domestic price of the red metal is $15\frac{1}{4}$ c, delivered to the Connecticut Valley as against $15\frac{1}{4}$ c a week ago. As a matter of fact the price was in process of advancing last Saturday and by Monday the higher price had become universally recognized. The second advance began on Thursday.

When this was written the export price was $15\frac{1}{4}$ c, the same as the domestic, but it will undoubtedly be marked up to 16c c. i. f. European ports. The price of copper is the highest since May, 1923. Moreover, at that time copper did not stay long at high prices, whereas now the outlook is for prices at least this high for several months to come. The price has advanced $12\frac{1}{2}$ per cent so far this year, or by $1\frac{3}{4}$ c per pound. Neither have the higher prices curtailed business. Of course, the same volume of sales as in September would be impossible because of the lack of copper to sell, yet the volume of sales is still far above normal. Domestic users are purchasing chiefly for January and about half of the production of that month is already booked up. Foreign users on the other hand are buying October and November metal which was set aside for export purposes.

Some of the minor metals have not shared the strength of the major metals. Antimony is lower by $\frac{1}{2}$ c per pound than a week ago, selling at $10\frac{1}{2}$ c, while quicksilver is at least \$1 per flask lower at \$123 as the minimum price, some holders refusing to sell below \$125. Silver prices hover around 58c per ounce which is an average level for the past year or two.

General industrial conditions are very good. Railroads are starting to buy freight cars in earnest after the previous dullness this year. Several inquiries are out for from 1000 to

3000 cars and this will mean the greater use of metals in bearings, etc. Building work is holding up at an unusually high rate for this time of year. The automobile industry is more active than normal for October.

Tin consumption just now is not as heavy as a month ago. Tin plate makers are working at 60 to 70 per cent of capacity as against 95 to 100 per cent in the spring of this year. Three packs were unusually large this year, Alaska salmon, California peaches and peas. Other packs of fruits, vegetables and fish, were below expectations.

Export sales of copper the past week averaged 6,000,000 pounds daily. So far no producer has fallen down on shipments but producers are figuring skillfully to bring about a fair distribution of the red metal. It is probable that some consumers have overbought, though this cannot very well be guarded against by producers. There are two dangers for copper now, though neither are very immediate. One is the danger of overproduction, the other is substitution of other metals for copper. Production is being increased, one company raising its output by 50 per cent the past month. New money is entering copper production and idle properties are being started up. Some mining men are leaving other branches of the metal industry to enter copper mining and development. Labor is turning from outdoor pursuits which are coming to an end because of the season and is entering copper mines.

The lead market is very satisfactory though not spectacular. However, purchasing is better than normal. Makers of ammunition were good buyers over the past week, while makers of batteries and cables were by no means dormant purchasers. The price of lead was unchanged at 6.50c per pound, New York, and 6.32 $\frac{1}{2}$ c, East St. Louis. The market is stronger in sentiment due to the fact that the slight concessions in the western market the past two weeks were not important enough to tear down the market price.

A little better inquiry was noted for zinc though the market was not brisk. The price is the same at 6.25c per pound, East St. Louis, for prime western slab zinc and 6.35c for brass special. High grade zinc has been in better demand than the more common forms. The ore situation is unchanged. The price is \$40 per ton and production and sales have the same ratios they have been experiencing.

Tin has been rather weak and buying unusually light. Prices are down to the levels of early fall following the boom of three or four weeks ago. These prices are 48 $\frac{1}{2}$ c per pound as against 50 $\frac{1}{4}$ c then. Prompt and futures sell at the same price levels for the first time in many weeks.

Fabricated Structural Steel Orders.

New orders of fabricated structural steel in September as reported to the Department of Commerce by the principal manufacturers were 84 per cent of capacity, based on total orders of 243,942 tons reported by fabricators with a capacity of 292,015 tons per month, as against August orders of 95 per cent of capacity and 71 per cent a year ago. Shipments of fabricated structural steel in September represented 74 per cent of the capacity of firms reporting this item as against 79 per cent in August and 72 per cent a year ago.

Steel Construction Institute Meets.

Steel fabricators in the United States and Canada are endeavoring to eliminate noise in construction work, according to the American Institute of Steel Construction. The subject will be given special consideration at the annual convention called by the Institute to meet at Biloxi, Miss., November 13 to 17, inclusive. The fabricators are contributing to research in welding and, if these prove successful, steel frame buildings may be erected with as little noise as was the case when Solomon built his temple.

GOOD ROADS AND MOTOR TRANSPORT

MACHINE FINISHING OF ASPHALT SURFACE ROADS IN THE SOUTH.

Better Surface Secured and Production Speeded Up by Eliminating Rakers.

The application of finishing machines to black top road work was introduced in the South this year, according to Lion Gardiner, vice-president of the Lakewood Engineering Co., Cleveland, Ohio, who recently prepared an interesting resume of this work, which is briefly summarized herewith.

Machine finished asphalt jobs were undertaken in 1928 in Oklahoma and the Carolinas. R. G. Lassiter Co., of Raleigh, used the first machine in South Carolina at Florence; the

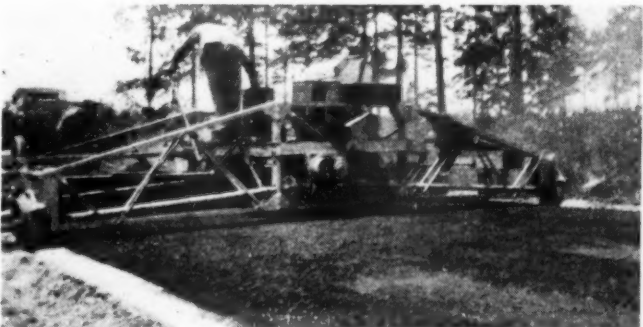


MACHINE ENGAGED ON BASE WORK.

Note in foreground steel strips laid on wood forms to protect them from screed board.

Asheville Paving Co., Asheville, N. C., used a similar machine at Ware Shoals, S. C.; Langston Construction Co., Orlando, Fla., utilized a machine on a job near Florence; the West Construction Co., Chattanooga, employed a machine on a 10-mile, 2-course sand asphalt job near Elizabethtown, N. C.; R. G. Lassiter & Co. used a machine on sand asphalt work at Red Springs, N. C. A machine was recently shipped to the Southern Paving Construction Co., Chattanooga.

It is said that contractors who have used these machines, and state and Federal officials and consulting engineers who

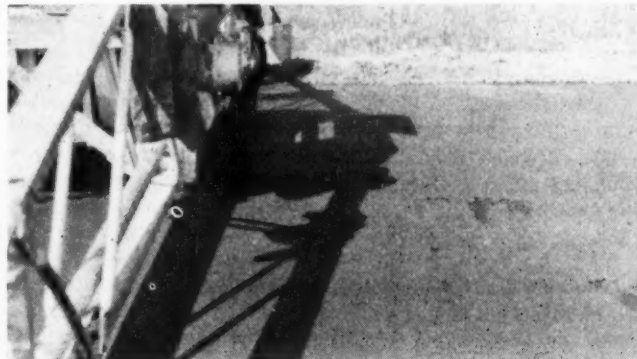


MACHINE USED BY R. G. LASSITER CO. AT FLORENCE, S. C.

have watched their operation carefully, are highly pleased with results. From the contractor's standpoint, it is declared, there can be a saving of labor and an increase in production, and a smoother surface is obtained than through hand raking. Hand rakers, except a couple of back rakers are eliminated, the material being shoveled off a hot board and spread roughly, exactly as though it were concrete; the machine rolls it ahead, fluffs it up and spreads it. Due to the design

of the screed used, it is said that the material is given an initial compression, which greatly assists in reducing the amount of the first roller "knockdown" thus making it easier to obtain a smooth surface.

The West Construction Co. job called for an 18-foot width, five inches thick—3 inch base and 2 inch top—and after one week's trial the machine was accepted. The company used 2 inch by 8 inch wood forms, which were left in place. They were set $3\frac{1}{4}$ inches below the subgrade, and with no



VIEW SHOWING SURFACE IMMEDIATELY BACK OF FINISHING MACHINE ON A 2-INCH TOP.

change in the usual method of stacking were found capable of supporting the finishing machine without sinking or weaving. The base course was first struck out and rolled, two or three miles of this course being completed before returning to lay the 2-inch top course. The top of the wood forms was protected by angle irons, moved ahead as the machine advanced. On this job a 2000-pound West Simplicity asphalt plant was used, capable of producing 40 to 50 tons of material an hour. Up to the time the machine was used for finishing it is said the maximum yardage finished by hand was approximately 4000 a day. On the fourth day of machine operation 5500 square yards of 2-inch was laid and finished.

Mr. Gardiner points out that at a recent letting of road contracts in South Carolina the three low bidders on an asphaltic concrete job were firms that had been using finishing machines, which presumably indicates that this method will reduce the cost of asphalt highways.

Important Meetings of Traffic Association.

The National Highway Traffic Association, Elmer Thompson, secretary, New York, announces the following meetings and conventions:

December 3—South Central Division of the National Highway Traffic Association, New Orleans.

December 10, 11 and 12—Annual meeting of National Highway Traffic Association at the Automobile Club of America, New York City.

January 16, 1929—North Central Division of the National Highway Traffic Association, Cleveland Hotel, Cleveland, Ohio.

Alabama Asks Bids on Roads and Bridges.

Montgomery, Ala.—The Alabama State Highway Department receives bids until November 14 for the construction of four road projects covering a total of 46 miles, and for 2 bridge projects. Road work will embrace 12 miles of sand clay road in Dale and Barbour counties, 11 miles between Andalusia and Opp and 12 miles between Andalusia and Florala, both in Covington County, and 10 miles in Geneva County. The two bridge projects call for a number of cul-

verts and bridges on the road between Wedowee and Oxford in Calhoun and Cleburne counties and for culverts and bridges between Montgomery and Orion and Montgomery and Downing in Montgomery County. Plans and specifications are on file at the State Highway Department and information may be obtained from Woolsey F'nnell, highway director.

\$500,000 Road Bonds Voted in Oklahoma County.

Ardmore, Okla.—Carter County has voted a bond issue of \$500,000 to supplement \$1,000,000 from the State for the construction of good roads. It is estimated that funds will be available for the improvement of 67 miles of highway.

Alabama to Offer \$7,500,000 Road Bonds.

Montgomery, Ala.—A new issue of \$7,500,000 highway bonds will be offered by the State of Alabama on November 16, according to private advices. This will be in addition to an issue of \$5,000,000 Alabama Toll Bridge Corporation bonds scheduled for sale December 1.

Bids Invited on Steel Bridge and Underpass.

Birmingham, Ala.—The Jefferson County Board of Revenue will receive bids until November 6 for widening an underpass under the Woodward Iron Company's tracks on the Hueytown road, the work to consist of approximately 700 cubic yards of excavation, 150 cubic yards of concrete, and 10 tons of steel, with the removal of the present structure and one abutment. The proposed bridge will span the Warrior River near Porter and will consist of one 198-foot and two 100-foot steel spans. Plans and specifications are on file at the office of C. J. Rogers, County highway engineer.

Increased Mileage of High-Type Highways.

With the cooperation of State highway departments, 8184 miles of Federal-aid highways were improved in the fiscal year 1927-28 and 2014 miles that had been previously improved by Federal aid were given surfaces of higher type, according to the Bureau of Public Roads. This work was done at a total cost of \$205,043,000, of which the Federal Government paid \$88,057,000, or 43 per cent, and the States paid the balance.

Under supervision of the bureau, 281 miles of National Forest roads were improved, bringing the total improved mileage of these roads to 3775 miles. The National Forest road system embraces at present a total of 13,911 miles.

In the Federal-aid system there are 187,753 miles of interstate and intercounty highways, of which on June 30 71,074 miles had been improved with Federal assistance and 1285 miles were undergoing stage construction, that is, were being given a higher type of surface than when previously improved with Federal aid.

The 8184 miles improved in 1928 include 2182 miles of graded and drained earth roads; 844 miles of sand-clay; 1836 miles of gravel; 92 miles of waterbound macadam; 464 miles of bituminous macadam; 136 miles of bituminous concrete; 2533 miles of Portland cement concrete, and 42 miles paved with vitrified brick. There were 54 miles of bridges and approaches.

Federal-aid highways are the most heavily traveled in the country, says the department, and increased demands of a growing traffic are shown by the greater increases in the types more suitable for heavy traffic. The mileage of high types of pavements built, such as bituminous macadam, bituminous concrete, Portland cement concrete and vitrified brick, increased 19 per cent in 1928, while the mileage of low types, such as waterbound macadam, gravel, sand-clay and graded and drained increased about 9½ per cent.

\$25,000,000 BRIDGE BUILDING PROGRAM FOR KENTUCKY.

Soon to Sell Bonds to Finance Construction of Many Important Structures.

Frankfort, Ky.—Bids will be opened November 28 by the State Highway Commission for the purchase of \$25,000,000 bridge bonds, of which approximately \$16,725,000 would be used to build the following bridges:

Ohio river—Half of cost of structure from Henderson, Ky., to Evansville, Ind., \$2,000,000; Carrollton, \$1,675,000; Wickliffe, \$4,500,000, and Maysville, \$1,500,000.

Tennessee river—Eggner's Ferry, \$1,000,000, and Clarks river \$1,500,000.

Cumberland river—Smithland, \$700,000; Tuka, \$600,000; Canton, \$500,000; Burkesville, \$350,000, and Burnside, \$275,000.

Kentucky river—Tyrone, \$200,000; High Bridge, \$300,000; Clay's Ferry, \$275,000; Boonesboro, \$200,000, and Gratz, \$300,000.

Green river—Spottsville, \$250,000; Brownsville, \$200,000; Rockport, \$200,000, and Borahs Ferry, \$200,000.

In addition to the construction of the above bridges, the Commission plans to acquire bridges as follows: Over the Ohio River near Paducah at an estimated cost of \$1,000,000; Kentucky River near Carrollton, \$75,000; Green River near Munfordville, \$250,000; Green River near Rio, \$100,000, and over the Green River near Calhoun, \$200,000. It also estimates the cost of existing bridges over the Ohio River near Cincinnati at \$1,000,000 and over the south fork of the Cumberland River near Burnside at \$20,000. The cost of a new bridge across the Ohio near Cincinnati is estimated at \$4,500,000 and over the Cumberland near Burnside, at \$200,000. The commission estimates that its entire toll bridge program will involve an expenditure of \$23,050,000, and according to J. S. Watkins, state highway engineer, the award of contracts will be started within 60 days, as preliminary work has already been completed on a number of the structures.

The bonds will be issued principally in denominations of \$500 and \$1000, the interest rate not to exceed 6 per cent.

Mississippi May Adopt \$60,000,000 Road Program.

Jackson, Miss.—A bill introduced in the State Senate by Senator Luther A. Whittington outlines a \$60,000,000 State road program, calling for 20 routes of hard surfaced highways and covering about 3000 miles. The purpose of the bill is to reorganize the State Highway Department into a three-man commission and to divide the State into three construction divisions from which the commissioners would be selected by the Governor with the consent of the Senate. The first district would take in an area north of the State line above Greenwood, west to the Mississippi River and east to the Alabama State line, while the second district would cover an area south of the lower border of District No. 1 to a line through the State crossing at a point near Terry, and the third district would take in an area from this State cross line to the coast.

The City of Houston, Texas, has awarded contract at \$174,238, to the Gulf Bitulithic Company of Houston, for paving all streets in the Braeswood Addition.

\$7,000,000 Road Program Progressing.

Houston, Tex.—The \$7,000,000 road construction program under way in Harris County is making good progress, according to H. L. Washburn, county auditor, who reports that a total of \$3,691,009 has been expended to date. Of this amount \$778,653 represents construction in progress or partially paid for. Earthwork to date has cost \$308,049; pavement, \$1,699,283; shoulders and drains, \$59,984; structures, \$289,681; rights-of-way, \$292,767; Highway Department, \$45,477, and engineering, \$217,110.

TEXTILE

\$3,000,000 Rayon Plant Announced for Charlotte.

Charlotte, N. C.—Charlotte has been selected as the site of a \$3,000,000 rayon plant to be erected here by the Rayon Company of America, Inc., of which D. B. Hilliard is president, with offices at Hotel Charlotte, according to reports current here. It is said Mr. Hilliard will remain in Charlotte to supervise the establishment of the enterprise and New York engineers are expected in a short time to confer with company officials relative to the selection of a site. It is the purpose of the company to build a mill village, leasing or selling available sites in the community to merchants, business houses and other organizations for the erection and operation of stores and other enterprises. The proposed plant is expected to employ approximately 2500 operatives on an annual payroll of \$2,000,000.

Contract Let for \$3,000,000 Textile Mill.

Talladega, Ala.—General contract for the erection of a \$3,000,000 textile mill here for the Bemis Brothers Bag Company, St. Louis, has been awarded to the Fiske-Carter Construction Company, Greenville, S. C. The mill units will consist of a two-story main building, 643 by 150 feet; two-story weave shed, 664 by 147 feet; a picker building and opener room, 182 by 83 feet; two-story dye house, 28 by 75 feet; one-story boiler house 49 by 49 feet, and a one-story warehouse and waste house, 800 by 100 feet, all of reinforced concrete construction. J. E. Serrine and Company, Greenville, S. C., are the engineers.

Aycock Hosiery Mills Building New Plant.

The Aycock Hosiery Mills, South Pittsburg, Tenn., R. R. Carter, secretary, now building a new plant there, have awarded contract to Ray S. Reilling, South Pittsburg, for brick work and to the Bridgeport Lumber Co., Bridgeport, Ala., for millwork. Contract for installing a 60,000-gallon sprinkler tank has been awarded to the Chattanooga Tank and Boiler Co., Chattanooga. W. H. Sears & Co., Chattanooga, are the architects.

Birmingham Textile Mill Offers \$600,000 Bonds.

Birmingham, Ala.—The Strowd-Holcombe Cotton Mills, Inc., of this city, are offering through the General Securities Corporation, Birmingham and New York, an issue of \$600,000 of 15-year first mortgage refunding 6½ per cent bonds to pay for plant enlargement and for additional machinery recently installed. The mill has increased its spindleage from 8300 to 30,000, producing tire fabrics and print cloths and working day and night shifts.

Morristown Knitting Mills May Add Equipment.

Morristown, Tenn.—It is stated that the Morristown Knitting Mills, Inc., H. F. Trobaugh, president and treasurer, plan the installation of new machinery which will largely increase the output of the plant. The mill is now equipped with 40 circular knitting machines, 8 loopers and dyeing department for the production of infants' hosiery.

New Unit for Aponaug Manufacturing Company.

Kosciusko, Miss.—Plans are being prepared by Robert and Company, Inc., of Atlanta, Ga., for a new mill unit here for the Aponaug Manufacturing Company, the structure to be one story and basement, 160 by 53 feet, with concrete foundations, brick walls, tar and gravel roof, steel sash, steel beams, cast

iron caps and bases and concrete and wood floors. The present plant is equipped with 12,000 ring spindles, 264 broad and 82 narrow looms, dyeing, bleaching and finishing departments for the production of chambrays and print cloths.

Ruth Hosiery Mill Expanding.

Durham, N. C.—W. J. Berry, owner and operator of the Ruth Hosiery Mill here, is erecting a new brick mill building and will install six full fashioned knitting machines as initial equipment. The new plant is expected to be ready for operation by January 1.

Silk Mill Planned for Burlington.

Burlington, N. C.—Plans are being considered by J. J. Redyke of the Southern Silk Yarns Corporation, owner of the Oxford Silk Yarns Company, of Oxford, N. C., for the establishment of a silk yarn manufacturing plant in Burlington with a capacity of 5000 to 6000 pounds weekly. The Oxford plant has been completed and is now ready for operation, it is said.

Twenty Additional Dwellings for Textile Mill.

Roxboro, N. C.—Contract has been awarded by the Collins and Aikman Corporation for the erection of 20 additional homes for operatives here. It is understood that the company is also considering a 200-foot extension to its mill building, in which additional machinery will be installed for the production of pile fabrics. The firm has main operations in Philadelphia; it operates 30 plain looms in its Roxboro plant.

Southern Pupils Study Rayon.

Further announcements of arrangements in the South for study and development of the rayon industry come in information from North Carolina and Virginia, indicating that Southern States are surpassing New York in that line, in which it once was regarded as a leader.

At the State College of North Carolina, Raleigh, a practical course on rayon manufacturing, as well as of other textiles, is well under way and is to be expanded as progress may demand.

Also, a dispatch from Blacksburg, Va., says that "Virginia Polytechnic Institute is preparing for the installation of machinery within the next few weeks for the manufacture of rayon and for the introduction in the chemical engineering classes for seniors of a course in the manufacturing of this product."

\$8,900,000 Capital for New Textile Corporation— \$2,500,000 Plant Under Way.

Dyersburg, Tenn.—The Dyersburg Cotton Products Company, a consolidation of five Northern and Eastern spinning firms, was recently incorporated under the laws of Delaware with a capitalization of \$8,900,000, according to its charter filed with the Secretary of State of Tennessee. The Gauger-Korsmo Construction Company, Memphis, general contractor for the erection of a \$2,500,000 mill here for the new company, started excavation on October 15 and work is now well under way. All buildings of the mill unit will be of face brick construction and will embrace a main building to house 20,000 spinning spindles and 1000 knitting machines, complete dye house and bleach house. Robert and Company, Inc., Atlanta, are the architects and engineers.

NEW AND IMPROVED EQUIPMENT

Skimmer Scoop for Universal Cranes.

The Universal skimmer scoop is described by the Universal Crane Company, Cleveland, Ohio, as readily adaptable to any standard Universal crane, being interchangeable with other Universal attachments, such as clamshell or dragline or the back digger attachment. The skimmer boom is a built-up, riveted, all-steel box section with a double track along the



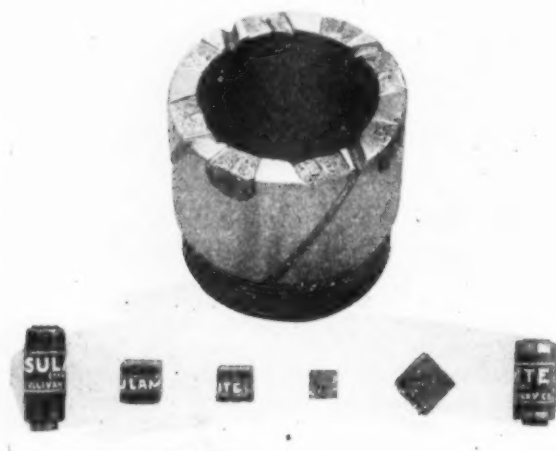
THE SCOOP IN OPERATION.

bottom side, on which runs a carriage of four rollers supporting the skimmer bucket. The bucket is equipped with a special cutting edge and can be used with or without teeth. The cutting stroke is approximately 12 feet and the maximum cutting radius is approximately 23 feet. The control of the boom permits making cuts from 6 inches to 2 feet deep with a very accurate control.

The operating speeds are said to be exceptionally fast, the bucket speed being 70 feet per minute on two part line and the boom hoist being controlled by the shell drum with a speed of 150 feet per minute. There are only two hand levers and two foot pedals to control all the major operations.

"Sulamite" for Core Drills.

For something like 40 years, search and experiments have been conducted for a material obtainable at relatively small cost to take the place of miners' diamonds or carbons used in the bits of diamond core drills. While there is no real substitute for black diamonds when the rate of progress and cost



TUBE BIT SET WITH "SULAMITE."

per foot of hole drilled in any formation are the only factors to be considered, the possibilities of a substitute under certain conditions have been recognized and experiments have been made for such material.

"Sulamite," which is the registered trade name given to

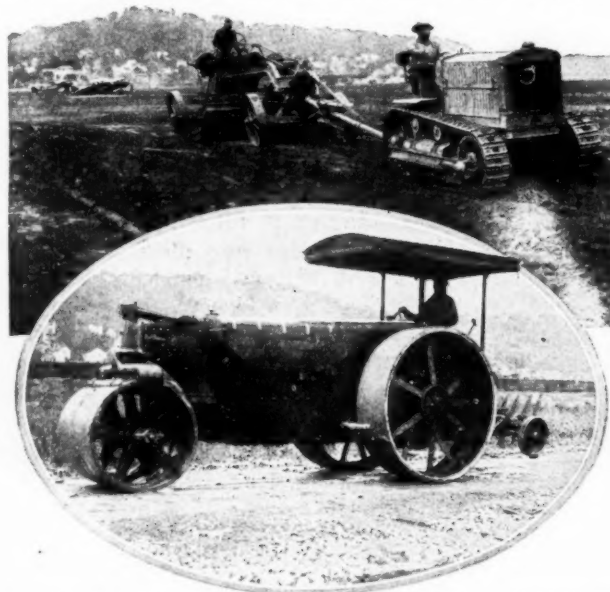
one of those manufactured substances, is said by the Sullivan Machinery Company, Chicago, to have proved "the most acceptable substitute for the black diamond thus far developed." "Sulamite" is a metallic alloy having practically the same characteristics as carbon or black diamond, with the exception that it is not as hard, says the Sullivan company, and adds: "It is, however, considerably harder than emery, corundum and similar substances."

The process of manufacturing "Sulamite" is a trade secret.

Road Machinery in Airport Work.

Road machinery, reports an official of the Gallion Iron Works & Manufacturing Company, Gallion, Ohio, has an important place in both the construction and maintenance of airports, for which roads usually must be built to the field and also into and around the field. This means the use of road rollers and road graders. Also, the field itself must be graded level and rolled firm for both landing and take-off, and for this work, large graders and heavy rollers are desirable. Finally, after the field has been fully established, it must be kept in good condition.

For this purpose, the Gallion company has designed a small roller, to be used in rolling sod and keeping it level and firm, as well as in rolling gravel or macadam roads. The planer



GALLION ROAD ROLLERS AT LUNKEN FIELD, CINCINNATI.

and scarifier are often useful and the roller is also a practical utility tractor.

These small rollers are now in use at several fields, among them the Ford field at Detroit, and a master roller is at work on the macadam road which leads into and around the Lunken field, Cincinnati.

City Markings for Aviators.

New York, October 27.—Harry F. Guggenheim, president of the Daniel Guggenheim Fund for the Promotion of Aeronautics, announces the beginning of a nation-wide movement for the identification of towns and cities by roof markings for the purpose of aerial navigation. With the co-operation of the Postoffice Department, the Fund has enlisted the services of the 8000 postmasters throughout the country in communities of a population of about 1000 or more, and these will take the initiative in identifying their respective communities by means of adequate roof markings.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airports, Airplane Plants, Etc.

Ark., Clarksville—Chamber of Commerce, R. H. McKennon, Sec., interested in establishing airport.

Fla., Tampa—City will erect \$10,000 hangar at City airport.

Ga., Gainesville—City constructing airport, L shape, under supervision of City Mgr.

Okla., Cordell—Airport—City considering \$50,000 bond election soon.

Okla., Pawhuska—Chamber of Commerce interested in establishing airport.

S. C., Charleston—City establish airport on 800 acre tract near Ten-Mile station. 10-25

Tex., Fort Worth—City acquired 60 acres to enlarge municipal airport.

Tex., Lubbock—Chamber of Commerce interested in establishing airport.

W. Va., Wheeling—Fokker Aircraft Corp. has merged with Western Air Express and Universal Air Lines; will enlarge Fokker aircraft plant; Harris M. Hanshue, will be Pres. and Gen. Mgr.

Bridges, Culverts and Viaducts

Proposed Construction

Alabama—C. B. Moore and J. L. Land, Staff Engrs. of State Highway Dept., Montgomery, will have field charge of building 15 highway toll bridges to be erected under direction of Alabama State Bridge Corp.; bids to be received Nov. 15. 10-11

Fla., Pensacola—Bureau of Yards and Docks, Navy Dept., Washington, D. C., receives bids Dec. 5 for 1,800-ft. long, 25-ft. wide, rein. conc. Bayou Grande Bridge, between Pensacola and U. S. Naval Air Station; R. E. Thomas, Lieut.-Commr. U. S. Navy, Public Works Officer.

Ga., Pearson—See Roads, Streets, Paving.

La., New Orleans—City Comm. Council received low bid from Dudley & Wike Construction Co., Stern Bldg., \$10,792, for Lamarque St. canal vehicular bridge at Whitney and Pacific Ave., and LeBoeuf St., Algiers; from Thomas H. Brockman, Canal Bank Bldg., \$8800, for N. Broad St. canal bridge.

Md., Baltimore—U. S. Engineers will hold public hearing Nov. 8 at Customs House on permits asked of War Dept. for 2 bridges over Curtis Creek, 1 mi. and 1½ mi. above mouth; City, Wm. F. Broening, Mayor, for replacement of highway bridge; B. & O. R. R., H. A. Lane, Ch. Engr., to construct railroad bridge.

Mo., Clayton—St. Louis County, Roy Jablonsky, Highway Engr., receives bids Nov. 7 for 8x8x39-ft. rein. conc. box culvert on Charbonier road ½ mi. north of Hawdershell road.

Okla., Oklahoma City—Oklahoma County Commrs. and Frisco Lines, F. G. Jonah, Ch. Engr., St. Louis, Mo., plan overhead crossing over Frisco tracks, ½ mi. north of Luther; eliminate grade crossing.

Okla. Sand Springs—Victor Cochrane, Eugene Wood and Donald Witten, Engrs., will make preliminary plans and estimates for \$250,000 rein. conc. bridge across Arkansas River, Sand Springs, to be built by Tulsa County Commrs., O. G. Weaver, Clk., Tulsa, and State Highway Comm., Oklahoma City. 9-20

South Carolina—State Highway Comm. received low bids for 5 bridges. See Roads, Streets, Paving.

S. C., Spartanburg—City and Southern Ry. System, B. Herman, Ch. Engr., Washington, D. C., plan railway bridge with 14-ft. clearance from street surface; replace old bridge.

Tenn., Knoxville—City, Otto Roehl, Mgr.,

plans 70-ft. wide Henley St. Bridge, consisting of series of conc. arches, over Tennessee River, cost \$1,000,000; J. E. Greiner & Co., Engrs., Lexington Bldg., Baltimore, Md. 8-30

Tenn., Selmer—McNairy County Special Highway Comm. receives bids Nov. 12 for about 10 creosoted pile, asphalt floors bridges on 2 highways: From Enville south to Leapwood and to State Highway No. 15; from Leapwood west through Finger to State Highway No. 5.

Tex., Amarillo—Potter County plans building five 24-ft. bridges within next few months; J. W. Ryder, County Engr.

Tex., Anderson—State Highway Comm., Austin, receives bids Nov. 19, tentative date, for bridge and approaches on .468 mi. Highway 105, from Sta. 791 to Montgomery County; 8x5x10 conc. box culvert, 105-ft. creosoted timber pile trestle bridge, with five 20-ft. clear spans, Grimes County; Oscar A. Seward, County Engr.

Tex., Karnes City—Karnes County plans 1600-ft. timber, steel vehicular bridge across San Antonio River, Highway 16, cost \$60,000; E. L. Mare, Res. Engr.

Tex., San Angelo—Tom Green County Commrs. Court plan 120-ft. bridge, 20-ft. wide, near Mereta, on Paint Rock road; J. T. Mathison, County Judge.

Tex., Weatherford—See Roads, Streets, Paving.

Va., Norfolk—City, I. Walke Truxton, Mgr., receives bids soon on 3 types of conc. bridges across Lafayette River at Larchmont; 26-ft. with one sidewalk; 26-ft. with 2 sidewalks; 20-ft. with one sidewalk.

Contracts Awarded

Miss., Forest—See Roads, Streets, Paving.

Canning and Packing Plants

Tex., Alamo—R. McMenemy and J. W. Lester, San Benito, plan erecting packing shed.

Concrete and Cement Plants

Tex., Houston—National Portland Cement Co. incorporated with \$250,000 no par value stock to take over properties of Gates Chemical Co., North San Jacinto and Mary Sts., and to convert for manufacture of white cement; have daily capacity of 50 barrels; Eugene S. Gates, Director; H. J. Harris, 4425 Normandy St., Dallas, President; C. S. Atkinson, 3406 LaBranch St., Houston, Secretary-Treasurer.

Cotton Compresses and Gins

La., Shreveport—Werner Co., Inc., Commercial Bank Bldg., Shreveport, has contract for warehouse on Johnson nr. Texas Ave.; cost \$30,000.

Tex., Troup—East Texas Gin Co. construct \$20,000 cotton compress.

Cottonseed-Oil Mills

Tex., Whitesboro—Whitesboro Cotton Oil Co. will rebuild burned cottonseed products plant.

Drainage, Dredging and Irrigation

N. C., New Bern—C. Walker Hodges, 305 Dunn Bldg., has contract at \$35,000 for dredging channel through Hampton Shoals 7 miles below New Bern, widening and deepening channel between highway bridge and Norfolk-Southern railroad bridge in New Bern and widening and deepening channel between Union Point and Norfolk-Southern railroad bridge over Trent River at New Bern.

Tex., Eagle Pass—Maverick County Water Improvement Dist. No. 1 call for bids soon

for irrigation project which will provide water for 60,000 acres. 4-5

Tex., Ingleside—City and Humble Oil and Refining Co., interested in formation of drainage district to improve several thousand acres; \$25,000 bond issue proposed. See Financial News.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Montgomery—Liddell Power Co., applied to Alabama Public Service Comm., Montgomery, for authority to build electric transmission line from Camden to Pine Apple via Oak Hill; build electric distribution system at Pine Apple and Oak Hill and for authority to furnish light and power along lines and in both towns.

Ark., Paris—City voted \$50,000 electric light bonds; plans addition and improvements to plant. 9-20

Fla., Palmetto—City let contract to Fairbanks, Morse & Co., Beloit, Wis., at \$17,000 for generating unit, including 120 hp. oil burning engine; two 850 gal. high lift centrifugal pumps, one 350 gal. high lift centrifugal pump; two 500 gal. low lift centrifugal pumps; Palmetto Electric Co., Palmetto, for one General Electric switchboard and installation; all masonry for floor, machinery foundation, water pipe lines connecting plant with city mains to H. A. Butler, Sarasota, at \$9400; work to begin at once; power will be used to operate water works machinery and for 375 white way lights.

Ky., Somerset—See Water Works.

Miss., Greenville—Burns & McDonnell Engineering Co., Interstate Bldg., Kansas City, Mo., preparing plans for power plant.

Miss., Hattiesburg—Mississippi Power Co., Gulfport, and Hercules Powder Co., Columbia Rd., signed contract by which former company will erect sub-station on grounds of Hercules Powder Co., Columbia Rd., with interconnecting switches between 2 companies; each company to furnish auxiliary electric power to the other.

Miss., Philadelphia—City let contract to Dalton Electric Co., Pythian Bldg., Meridian, Miss., for white way along business section.

Mo., Joplin—State Public Service Comm., Jefferson City, granted authority to Empire District Electric Co., Joplin, to construct dam and power house at Table Rock, in Taney County; propose to dam White River 6¼ miles above Branson; dam 1924 ft. long, 197 ft. high and cost \$16,700,000; area of reservoir 29,000 acres. 10-11

Mo., Mountain Grove—E. J. Green, acquired Mountain Grove Creamery, Ice & Electric Co.'s plant.

N. C., Goldsboro—See Water Works.

N. C., Old Fort—Jupollo Public Service Co., Cleveland, Ohio, acquired White Coal Power Co.'s plant; improve and install street lighting plant; also acquired power plants in Franklin, Sparta, Blowing Rock, Independence, Va. and Old Fort.

S. C., Honea Path—City voted to sell lighting system to Southern Public Utilities Co., Charlotte, N. C.

Tex., Columbus—Central Power and Light Co., Frost Natl. Bank Bldg., San Antonio, has contract white way system.

Tex., Dallas—Dallas Power and Light Co. submitted plans to City Comm. for construc-

tion of \$2,750,000 addition to electric power plant, generating capacity of 25,000 kw.; turbo-generator, together with necessary auxiliary equipment, additional boilers turbine room, boiler room and erection of smokestack.

Tex., Dallas—Dallas Power and Light Co., amending charter by adding 87,500 shares of non par value capital stock to present capital, giving new stock valuation of \$1,750,000, making total capital stock \$8,750,000.

Tex., Fort Worth—Howe, Snow & Co., Inc., E. H. Rollins & Sons, 44 Wall St., and H. M. Bylesby & Co., Inc., 111 Broadway, all New York, offering issue of 14,000 shares of General Water Works & Electric Corp., \$7 series cumulative preferred stock, priced at \$100 per share flat; company lately acquired all outstanding common stock of Texas-Louisiana Power Co. 10-25

Tex., San Marcos—Southwest Utilities Corp. acquired water and sewer system of San Marcos Utilities Co.

Tex., Waelder—Central Power and Light Co., Frost Bldg., San Antonio, plans building line from Flatonia to here; have franchise.

Va., Charlottesville—Virginia Public Service Co. offering \$3,000,000 first mortgage and refunding 20 year 5½% gold bonds, Series A, through E. H. Rollins & Sons; Old Colony Corp., both Boston; Hill, Joiner & Co., Inc.; Hulsey, Stuart & Co., Inc.; H. M. Bylesby & Co., Inc.; Emery, Peck & Rockwood Co., all Chicago; Howe, Snow & Co., Inc.; Eastman, Dillon & Co., both New York; Blyth, Witter & Co., San Francisco; company organized under laws of Virginia, supplies electric light and power in 197 communities, including Newport News, Hampton, and environs, Alexandria, Warrenton, Charlottesville, Staunton, Clifton Forge and in south Emporia, South Boston and intermediate communities; gas in 10 and ice in 38 communities including Newport News and adjacent towns; street railways operated in Newport News and through subsidiary in Charlottesville; company is subsidiary of National Public Service Corp., under control of National Electric Power Co. and is part of system of Middle West Utilities Co., 72 W. Adams St., Chicago.

W. Va., Hinton—West Virginia Hydro-Electric Co., Charlottesville, Va., applied to Public Service Comsn., of West Virginia for permit to build dam and power station at Sandstone Falls on New River for proposed hydro electric development; also filed application with Federal Power Comsn.; no actual work to begin until license is granted. 10-25

Fertilizer Plants

Miss., Jackson—Virginia-Carolina Chemical Corp., Richmond, Va., erecting 1-story addition to fertilizer works; 200x130 ft., frame construction; cost \$15,000.

Foundry and Machine Plants

La., Mansfield—De Soto Foundry & Machine Co., Ltd., offering \$75,000, first mortgage 6½% serial gold bonds through Commercial National Co., Inc., Shreveport, La.; company, one of pioneer steel foundries of South, has capacity of 10 tons daily; manufactures Law conduit gate valve, steel and grey-iron castings and oil field specialties; proceeds to be used to reimburse treasury for expansion of plant and installation of additional manufacturing equipment and other corporate purposes.

S. C., Spartanburg—Draper Mfg. Co., Hope-dale, Mass., reported, plans establishing assembling plant to manufacture cotton mill looms; bids invited on buildings, steel and other materials; also establish mill village.

Tenn., Chattanooga—American Automobile Appliance Co., Hamilton Bk. Bldg., changed name from American Hoist Corp.; recapitalize company for \$1,000,000; will manufacture automatic air brake, Gladish electric auto elevator, American axle type auto elevator, put and take gasoline dispenser, etc.

Gas and Oil Enterprises

Ark., Little Rock—Little Rock Refining Co., capital \$250,000, C. N. Faubel, Pres., 4101 Woodlawn; E. L. Warden, Sec.-Treas., 2124 E. Third St., North Little Rock, establish carbon black plant and oil refinery; install \$60,000 stills, office building, etc.; will use Brink process, patented process of refining crude oil; capacity 1000 bbls. daily.

Ark., Smaekover—Patsy Oil Corp., capital \$20,000, incorporated; F. S. Goodwin.

Ky., Catlettsburg—Inland Gas Corp., Ashland, acquired right of way for 12-in. pipe line from head of Keyes Creek through Catlettsburg to Kenova, W. Va.

Louisiana—Memphis Natural Gas Co., Memphis, Tenn., constructing 210-mile pipe line

from Monroe gas fields; closed contract with Louisiana Power and Light Co., 2 Rector St., New York, to supply gas for distribution in cities and towns along right of way.

La., New Orleans—Shreveport Oil and Refiners Co., consolidation of Shreveport Oil Co., 819 Decatur St.; St. Bernard Oil Co. and Jefferson Oil Co., Jefferson Parish, companies operating in and around New Orleans, acquired seven squares of land in Jefferson Parish in Southport as site for \$750,000 oil refinery; construction begin in about 15 days, to be completed in about 5 months; daily capacity 800 bbls.; crude oil imported or obtained from domestic fields; refined product to be exported; 600 ft. of harbor frontage arranged for plant; Graham Engineering Co., Godechaux Bldg., New Orleans, will supervise construction; plant will include 3 common drum stills, large bubble tower and smaller one for condensing; also cracking unit. 10-25

La., Rayville—Rayville Gas Co., Inc., capital \$50,000, chartered; J. A. Hemler, John McCarthy.

Miss., Jackson—Pan American Petroleum Corp., Edwards Hotel Bldg., F. S. Cannon, Dist. Mgr., will construct "A" station district center and barreling plant, N. Mill St. and Lorenze Ave.; cost \$100,000.

Miss., McComb—F. S. Mordaunt, New Orleans, La., representing New Orleans capitalists, plans installing artificial gas plant.

N. C., Hickory—A. A. Whitlock, Berwick, Pa., granted 30 yr. franchise; construct \$350,000 plant; gas to be piped to Newton, Lenoir and townships surrounding Hickory from principal plant here; have franchises in West Hickory, Highland, Lenoir, Newton and Conover. 9-27

Okla., Hugo—Community Natural Gas Co., 1915 Wood St., Dallas, Tex., plans constructing gas line Hugo to Paris, Tex.

Okla., Muskogee—City granted franchise to Muskogee Natural Gas Co. and Municipal Gas Co. for furnishing gas through city; both companies plan laying gas lines for domestic and industrial purposes.

Okla., Newkirk—Newkirk Oil Corp., capital \$12,000, incorporated; Ernest W. Green, P. H. Hudson.

Okla., Oklahoma City—Wirt Franklin Oil Co., Ardmore, plans 1000 bbl. oil refinery near here; cost \$200,000.

Okla., Okmulgee—Independent Oil & Gas Co., Kennedy Bldg., Tulsa, constructing pipe line to refinery; increase capacity 5000 to 10,000 bbl. daily; considering installing pipe line from Okmulgee to point in Greenwood County, Kan., to connect with present line running to Kansas City refining plant.

Tenn., Oakdale—W. A. Messer, Sunbright, and associates, applied for franchise for extending natural gas line to Rockwood; has franchise at Oakdale and Harriman.

Texas—Stockholders of Texas Corp., 17 Battery Place, New York, approved an offer of additional stock in ratio of 1 new share for each 6 now held at \$40 per share to provide for additional expansion plans in various sections of U. S.; stock will amount to 1,408,288 shares; improvements will include construction of pipe line from Panhandle fields to Port Arthur refinery, main trunk line Tulsa, Okla. to Lockport, Ill.; refineries at Amarillo, El Paso and San Antonio. 9-27

Tex., Amarillo—Texas Co., 720 San Jacinto St., Houston, reported, acquired Amarillo Refinery, owned and operated by Reese Allen, Wichita Falls; will probably enlarge.

Tex., Breckenridge—Mesa Production Co. incorporated; C. V. Luman, T. Edgar Johnson; engaged C. L. Stevens and Bill Donovan, Const. Engrs., for surveys for oil development.

Tex., El Paso—Texas Co., 720 San Jacinto St., Houston, plans constructing 45,000 bbl. monthly capacity refinery; install pipe stills, 1 battery of Holmes-Manley vertical stills, boiler house, tankage, lines, storehouse, office buildings, etc.; has site of 100 acres. 10-10

Tex., Fort Worth—Redo Oil Co. incorporated; W. C. Holliday, D. Wag. Bldg.

Tex., Groesbeck—Humble Pipe Line Co., subsidiary of Humble Oil and Refining Co., Humble Bldg., Houston, reported, making survey for pipe line from Boggy Creek field to here.

Tex., Houston—Houston Natural Gas Co. laying mains for natural gas distribution in Colonial Terrace on Bellaire Blvd.

Tex., Slaton—South Plains Pipe Line Co. constructing 28-mile pipe line from Slaton to Post for West Texas Gas Co., Amarillo; John W. Moore Construction Co., Contrs., Rule Bldg., Amarillo.

W. Va., Charleston—Allen Oil and Gas Co., capital \$50,000, incorporated; Thomas Cairns, I. B. White.

Ice and Cold-Storage Plants

Ala., Birmingham—Carlton Smith, 1008 Elm St., and Zac P. Smith, Jr., 1016 Eula St., has contract to construct building, Graymont Ave., to be occupied by General Refrigeration Co.; cost between \$40,000 and \$50,000.

Fla., Jacksonville—Growers and Shippers Supply Co., capital \$50,000, incorporated; S. F. Freeman, George Dow.

Tex., Lampasas—Southwest Ice Co., Chicago, Ill., acquired Lampasas Ice & Refrigerating Co.

Tex., Yoakum—Southwest Utilities Corp. acquired Yoakum Ice Co.

Land Development

Ark., Harrison—Harrison Holding Co., capital \$200,000, incorporated; Ab Hudspeth, Tom Milburn.

Ark., Little Rock—City appointed John Nolen, Cambridge, Mass., as planning engineer for city.

Fla., Frostproof—Equity Groves Co., incorporated; W. H. Brown, F. L. Cody.

Fla., Jacksonville—Jacksonville Partnership Corp. incorporated; H. P. Osborne, Atlantic Natl. Bk. Bldg.

Fla., Miami—Albemarle Realty Co., capital \$50,000, incorporated; W. H. Leonard, S. A. Leonard.

Fla., Miami—Chapman Properties, Inc., chartered; C. N. Grimshaw, 766 N. W. 13th Ave.

Fla., Ocala—C. F. Cramer interested in colonization on several thousand acre tract on Lake Weir; F. W. Ditt, 107 S. Main St., Ocala, also interested.

Fla., Stuart—Pelican Holding Co., capital \$172,000, incorporated; Carroll Dunscombe, L. H. Toussaint.

Fla., St. Petersburg—Sunflower Corporation incorporated; J. O. Hubbard, John C. Blocker, Jr., First Natl. Bk. Bldg.

Fla., Winter Haven—Polk Groves, Inc., capital \$20,000, chartered; T. W. Brogden, M. U. Brogden.

Ga., Macon—City, Luther Williams, Mayor, plans developing Highlands Park.

Ga., Savannah—Realty Development Co., developing Magnolia Gardens subdivision.

Ky., Ashland—Old Orchard Land Co. incorporated; Rudd T. Nelle, F. A. Ware.

La., New Orleans—Tulane Realty, Inc., capital \$75,000, chartered; John W. Huggett, 2514 Audubon St.

La., New Orleans—Imperial Realty Co., Inc., chartered; Edwin C. Hollins, Hibernia Bldg.

Md., Cumberland—Cumberland Realty Co., incorporated; Thos. B. Finau, B. J. Binan.

Mo., St. Louis—Singer-Klein Realty Co. incorporated; Theodore I. Singer, 5855 Washington Ave.

Mo., St. Louis—Prairie Realty Co., incorporated; C. E. Bascom, 52 Portland St.

Mo., St. Louis—Managua Realty Co., 716 International Life Bldg., incorporated; W. Bradford Oxford.

Mo., St. Louis—Wheaton C. Ferris, Boatman Bank Bldg., developing subdivision on Natural Bridge Rd., Olive St. Terrace and Goodfellow Ave.

Mo., St. Louis—Wilburn Farm and Nurseries Co., incorporated; Morton J. May, Brentmore Park.

Mo., St. Louis—Public Utilities Committee, plan acquiring 48 acres in St. Louis County, develop park in connection with Missouri River water plant.

North Carolina—Rufus Dalton, 112 S. Main St., Winston-Salem, retained E. S. Draper, Landscape Archt. and Engr., Charlotte and Atlanta, Ga., to plan residence ground development; Northrup & O'Brien, Archts., Starbuck Bldg., Winston-Salem; A. E. Escott, 311 Central Ave., Charlotte, also retained E. S. Draper to prepare plans for development of South Acres, Park Rd., S. Dilworth, Charlotte into small acreage tracts.

N. C., Concord—City plans expending \$85,000 for improvements to sewer lines, new disposal plant and improvements to Oakwood cemetery.

N. C., Tarboro—Tar River Realty Co., capital \$50,000, incorporated; S. N. Clark, W. G. Clark, Jr.

S. C., Camden—The Kendall Co., Wateree Div., let contract to Carolina Contracting Co., 1112½ Taylor St., Columbia, for village

improvement work, including grading, conc. curb and gutter, storm drainage, street surfacing, park improvements, etc.; plans and supervision by E. S. Draper, Landscape Archt. and Engr., Charlotte, N. C. and Atlanta, Ga.

S. C., Calhoun Falls—Calhoun Falls, Inc., chartered under the laws of Delaware; Elizabeth McKenzie, 175 W. 172nd St., New York, Sec. Treas.; reported, develop 12,500 acres in Greenwood and McCormick counties; establish golf course, winter and summer resorts.

Tenn., Chattanooga—Realty Trust Corp., capital \$100,000, incorporated; E. F. Hubble, 2109 Duncan Ave., Pres.

Tenn., Memphis—Ronie E. Harris, 112 Monroe St., acquired 700 acres on Pigeon Roost Rd.

Tenn., Sweetwater—W. E. Michaels and George Kille, reported, interested in development of Craighead Cave, in tract of 300 acres; establish parks, summer cottages, etc.

Tex., Beeville—J. W. Baird acquired 640 acres in Bee County.

Tex., Austin—City plans installing equipment in playground on Cameron Rd.

Tex., Corpus Christi—Bryan Adair, Dinero, develop 3000 acres in Live Oak County for subdivision.

Tex., Dallas—Restland Memorial Park, Carr P. Collins, Chmn., Bd. of Directors, plans \$75,000 improvements; Lee M. Jenney, Consit. Landscape Archt. and Engr., 3516 University Blvd.

Tex., Houston—Houston Co., Wharton Weems, Pres., Esperson Bldg., develop tract fronting on bay between Sylvan Beach and Red Bluff.

Tex., Houston—Golden Triangle Ranch Co. acquired 1442 acres adjoining Ellington Field.

Tex., San Angelo—J. E. Smart Real Estate Co. acquired Brantwood townsite addition.

Tex., San Antonio—J. M. Clark, San Pedro Hills, plans development of 100 acres nr. San Pedro Ave.

Tex., San Antonio—Exchange Realty Co., Inc., 409 Navarro St., developing Westwood Suburban Estates subdivision; install water, sewer, etc.

Tex., San Antonio—T. B. Baker acquired 26,119-acre ranch in Duval County.

Tex., San Antonio—Dr. Lucius D. Hill, Jr., Medical Art Bldg., acquired 3280 acres Bandera county; develop for ranch and playground.

Tex., San Antonio—A. Egg, 926 Kayton St., acquired 1800-acre ranch in Bexar county.

Tex., San Saba—Ira G. Yates acquired 7000 acres in San Saba County.

Tex., Uvalde—C. S. Holcomb acquired 5700-acre ranch on Nueces River.

Tex., Uvalde—Ed. Downey, of Sanderson, acquired 13,000 acres Rio Frio ranch.

Tex., Waco—Speedway Park, Inc., capital \$25,000, chartered; E. M. Card, Anna I. Bales.

W. Va., Huntington—Cunningham Realty Co., incorporated; J. O. Cunningham, 1401 Adams Ave.

W. Va., Martinsburg—Good Luck Orchard Co., capital \$50,000, incorporated; C. L. Nicodemus, J. Ashby Sprint.

Lumber Enterprises

Ala., Gadsden—Southern Mfg. Co. will rebuild burned sawmill.

Ark., Little Rock—Gaiser Hill Lumber Co., incorporated; F. M. Hill, 618 N. Cedar St.

Fla., Boynton—Austin Supply Co., capital \$50,000, incorporated; Frank S. Austin, Charles A. Austin.

Fla., Olustee—J. Ray Arnold Lumber Co., capital \$125,000, incorporated; J. Ray Arnold, J. B. Arnold.

Ga., Dalton—W. H. Lumpkin and R. B. Cannon acquired Acme Lumber and Supply Co.

Tex., Pittsburg—W. W. Prior, Waco, acquired site, will construct lumber yard.

Mining

Mo., Joplin—Joplin Mining Co., capital \$100,000, incorporated; J. C. Manning, 1810 Bird St.

N. C., Lillington—Lillington Stone Co., capital \$100,000, incorporated; G. D. Monroe, G. S. Loving.

N. C., Winston-Salem—Salem Quarries, Inc., H. C. Perkins, Pres., plans expansion program, install machinery and equipment; construct spur line railway from Winston-Salem southbound tracks at Longview to Salem Quarries; company produces ballast

and concrete aggregate present daily output 500 tons.

W. Va., Huntington—Knox Mining Co., capital \$25,000, incorporated; G. H. Baber, Union Bk. Bldg.

Miscellaneous Construction

Fla., Miami Beach—Miami Beach Kennel Club let contract at \$250,000 to Harrison Construction Co., 500 N. E. 45th St., Palm Beach, at \$250,000 for erecting greyhound racing track, on shore of Atlantic Ocean; also for steel and cement grandstand and clubhouse.

Mississippi—U. S. Engr. Office, Memphis, Tenn., receives bids No. 2 for constructing current retards in Mississippi river at Trotter's Bend.

Miscellaneous Enterprises

Ala., Birmingham—Stockham Pipe and Fitting Co., Herbert Stockham, Pres., let contract to H. K. Ferguson Co., Hanna Bldg., Cleveland, Ohio, for constructing warehouse and shipping building and laboratory; warehouse and shipping building, 2 stories, 104x251ft., will have freight and barrel elevators and include train shed for 10 cars; laboratory, 1 story, 60x95 ft.; also construct 200-ft. conc. roadway; plans completed by Ferguson engineering department and construction will start immediately; be completed about Jan. 1.

Ark., Conway—Faulkner Dairy Co. construct \$40,000 milk station, Main and Chestnut Sts.; George Wittenberg, Archt., Home Insurance Bldg., Little Rock.

Ark., Cotter—Wallace Pencil Co., F. C. Wiseman, Supt., plans rebuilding burned pencil factory.

Ark., Fort Smith—Claud Ward erect \$60,000 milk pasteurizing plant and condensary, N. Tenth and F Sts.

Ark., Hope—South Arkansas Implement Co., capital \$25,000, incorporated; W. N. Bemis.

Fla., Lake Wales—Lake Wales Paint Co. incorporated; C. J. Hurlbut, V. E. Backas.

Fla., Tampa—Valley Construction Co. incorporated; L. Moseley, 3104 Julia Ave.

Ga., Savannah—Georgia Tile and Marble Co., incorporated; R. A. Norworthy, Savannah Bank and Trust Bldg.

Ky., Lexington—Dunnington-Clark Tobacco Co., capital \$150,000, incorporated; J. R. Cunningham, 678 S. Broadway.

Ky., Louisville—United States Shoe Co., 229 E. 6th St., Cincinnati, Ohio, erect \$170,000 shoe factory, 17th St.; 2 stories, 70x500 ft.; Ferro Construction Co., 3d and Elm St., Contr., Cincinnati.

Ky., Louisville—Falls City Ice and Beverage Co., Men H. Schrader, Pres., 31st St. and Broadway, plans enlarging program; includes addition to bottling shop, enlarging ice storage capacity, installation of new machinery, erection of 2 mechanical shops.

Ky., Madisonville—Powell & Boddie Construction Co., incorporated; J. H. Boddie, J. West Powell.

Ky., Owensboro—C. A. Reise, Maple Rapids, Mich., interested in establishing cheese factory.

La., Baton Rouge—Meat Packing—Armour & Co., 43rd and Packer Ave., Chicago, Ill., let contract to John Powers, 164 N. Washington St., Chicago, for erecting \$100,000 packing plant, Europe St.; 100x160 ft.; W. H. Quine, Local Mgr.

La., New Orleans—Electric Shop, Inc., chartered; B. H. Stern, 22 Newcomb Blvd.

Md., Baltimore—Merrill, Lynch & Co., 120 Broadway, New York, acquired 65 chain stores owned by Knoblock Bros., Inc.

Md., Oakland—Metal Chains—Handy Link Co., incorporated; Thomas A. Gonder, Delbert Davis.

Miss., Biloxi—Ness Ice Cream & Milk Co., enlarge building and install machinery.

Miss., Collins—Lions Club negotiating with Wildar Pickle Co., Cleveland, Ohio, for establishing pickle plant.

Miss., Jackson—Dunlap Chemical Co., L. R. Bowers, erect factory; rein. conc. brick, 2 stories; N. W. Overstreet, Archt., Mississippi Fire Insurance Co. Bldg.

Miss., McComb—H. L. Hall will rebuild burned Sanitary Mattress Factory, Main St.

Miss., Newton—Kraft Cheese Co., 402 Rush St., Chicago, Ill., erect cheese plant.

Mo., Cape Girardeau—G. L. Heyman Mfg. Co. plans moving garment plant from Winchester, Ky., to Cape Girardeau.

Mo., Joplin—Advertising—Meeker Co., 3rd Ave. and Michigan St., erect \$90,000 plant, E. Seventh St. and Michigan Ave.; rein. conc. 156x66 ft., 2 stories and basement; Smith & Van Pelt, Archts., Joplin National Bank Bldg.; Al Wood Construction Co., Contr.

Mo., Kansas City—Public Service Pulverizing Co., capital \$20,000, incorporated; T. J. Pendergast, 1908 Main St., will manufacture pulverized limestone.

Mo., Kansas City—American Dairies, Inc., formed by consolidation of Patton Creamery Co., 837 N. Campbell St., Springfield; American Butter Co., 2438 Broadway; Decoursey Creamery Co., 644 Northrup Ave.; Meriden Creamery Co., 2100 Central Ave., all of Kansas City, and creameries at Hutchinson, Kan., and Kearney, Neb.; C. W. Kent, 1014 Greenway Terrace, Kansas City, will be president of new company.

Mo., St. Louis—Normandy Realty & Construction Co. incorporated; Fred Hippenmeyer, 2401 N. Union Ave.

Mo., St. Louis—Metalcraft Corp., 4215 Clayton St., erect \$30,000 factory, 5101 Penrose St.; brick, 2 stories, 186x253 ft.; built-up roof; Schooley & Chamblin, Contr., 6038 Delmar St.

Mo., St. Louis—Atlas Tool & Mfg. Co., 5707 Manchester St., erect \$10,000 factory, 6319 Manchester St.; brick, 1 story, 60x100 ft., tar and gravel roof.

Mo., St. Louis—Pet Milk Co., Arcade Bldg., offering 55,597 shares common stock, \$37.75 per share, through Goldman, Sachs & Co., 411 Olive St.; Lehman Bros.; company has 28 main plants; proceeds to be used to provide additional capital required as result of expansion.

N. C., Asheville—Asheville Mattress Factory, capital \$100,000, incorporated; C. L. Shepherd, 343 Cumberland Ave.

N. C., Bayboro—Bayboro Dredge Co., capital \$25,000, incorporated; Joseph Keys, Washington, D. C., The Highlands.

N. C., Brevard—C. C. Yonque, Russell Brown, and others negotiating with Continental Sugar Co., Fremont, Ohio, for establishing sugar factory.

N. C., Charlotte—City Commrs. call for bids soon for fire fighting equipment for Myers Park and Wesley Heights fire stations.

N. C., Raleigh—Farm Implements, etc.—Cotton Growers' Supply Co., capital \$100,000, incorporated; W. A. Pierce, Weldon; B. C. Mayo, Tarboro.

N. C., Raleigh—North Carolina Home Insurance Co., Commercial Bank Bldg., Alexander Webb, Pres., considering increasing capital, \$500,000 to \$1,000,000, through issuance of \$500,000 additional stock.

N. C., Statesville—Gagner Mfg. Co., H. D. Gagner, Pres., will establish shirt factory in connection with rayon plant.

N. C., Wilmington—Atlantic Candy Co., 2020 Metts Ave., erect building, 315 N. Second St.

Okla., Oklahoma City—Hightower Building Co. increased capital \$250,000 to \$500,000.

Okla., Mangum—Elmer V. Jessee plans constructing sweet potato curing plant. See Want Section—Machinery and Supplies.

Okla., Oklahoma City—V. C. C. Construction Co., incorporated; V. C. Cossota, 524 West 15th St.

Okla., Tulsa—Clark Welding Co., capital \$25,000, incorporated; J. J. O'Brien, 904 North Cheyenne St.

Okla., Wewoka—Wewoka Packing Co., capital \$20,000, incorporated; L. L. Sturgeon, S. S. Orwig.

S. C., Greenville—St. John Bros. Co., Inc., 350 Broadway, New York, acquired building on south bank of Reedy River; will establish clothing manufacturing plant; install power sewing machines; company considering establishing plant for manufacturing cloth.

S. C., Greenwood—Greenwood Ice & Coal Co., incorporated; H. V. R. Schrader.

S. C., Greenwood—Greenwood Coca-Cola Bottling Co., incorporated; Breckenridge Gamble, H. T. Duckett.

Tex., Brownwood—Brownwood Coca-Cola Bottling Co., capital \$150,000, incorporated; J. W. Latham, J. Claude Smith.

Tex., Calvert—John Brougher, Texas City, acquired Calvert Tribune newspaper.

Tex., Groveton—E. L. Nelson acquired Trinity County Newspaper.

Tex., Houston—P. H. Fredericks has contract at \$11,262 for constructing addition and remodeling Gould's laundry, Canal St.; Charles P. Jones & Co., Archts., Bing Bldg.

Tex., Houston—McKamy Plumbing and Electric Co. incorporated; J. K. McKamy, Lela McKamy.

Tex., Mineral Wells—William Prescott,

Allen, acquired Mineral Wells Index newspaper.

Mo., St. Louis—Gill & Jackson, Archts., 520 Buder Bldg., completed plans for \$40,000 laundry building; brick, 2 stories and basement, 100x60 ft., comp. roof, terra cotta trim.

Tex., San Antonio—Basila Frook Co., 503 W. Commerce St., erect factory, Zarzamora St.; brick, rein. conc., 2 stories; Phelps & Dewees, Archts., Gunter Bldg.

Tex., San Antonio—Parker Roofing Co., Inc., capital \$25,000, chartered; R. M. Parker, 501 W. Agartia St.

Tex., San Antonio—Linde Air Products Co., 504 Dolorosa St., San Antonio, and 30 E. 42nd St., New York, let following sub-contracts for constructing oxygen producing plant, Cassiano St.: Steel, Alamo Iron Works, 130 Santa Clara St.; sheet metal, Tobin Hill Sheet Metal Works; roofing, Parker Roofing Co.; Builders Exchange Bldg.; Summer-Sollitt Co., Gen. Contr.

Tex., Weatherford—Mid-State Coffee Co., incorporated; Frank Porter, J. Bonner Barby.

Tex., Wichita Falls—Buchanan Stationery Co., capital \$40,000, incorporated; C. Buchanan, R. B. MacDonald.

Va., Blackstone—Printing—Blackstone Courier Corp., capital \$15,000, incorporated; T. Freeman Epes, Allan Epes.

Va., Norfolk—General Baking Co., 420 Lexington Ave., New York, erect baking plant covering entire block between 24th and 25th Sts.; C. B. Comstock, Archt., 110 W. 40th St. and Gazelle Ave., New York; R. R. Richardson & Co., Contrs., Natl. Bk. of Commerce Bldg., Norfolk; following sub-contracts let: Misc. Iron, H. M. doors, T. C. doors and proof box doors, Hall-Hodges Co., Citizens Bank Bldg., Norfolk; face brick, Kittanning Brick Co., Kittanning, Pa.; roofing and sheet metal work, Norfolk Sheet Metal Works, 415 W. 23rd Ave., Norfolk Va.; terra cotta, Atlantic Terra Cotta Co., New York, N. Y.; plumbing and heating, Coley & Petersen, Inc., 432 Bonah St., Norfolk, Va.; granite, Archibald Ogg, Portsmouth, Va.; rein. steel, Concrete Steel Co., Penn Bldg., Philadelphia, Pa.

Va., Richmond—Virginia-Carolina Rubber Co., 3500 Lewis St., W. Bryan Branch, Sec., will expend \$250,000 for enlarging plant and installing equipment to include reclaiming mills; manufactures automobile tire accessories and complete line of mechanical rubber goods; will offer \$250,000 7% 10 yr. gold notes.

Va., Richmond—Simmons Co., Kenosha, Wis., considering establishing plant to wash and manufacture cotton and felt.

W. Va., Bluefield—Stewart Fuel & Supply Co., capital \$50,000, incorporated W. A. Richards, 701 Albemarle St.

W. Va., Clarksburg—Stockholders of Grasselli Chemical Co., main office Guardian Bldg., Cleveland, Ohio, will vote Nov. 10 on consolidation with E. I. du Pont de Nemours & Co., Wilmington, Del.; proposal includes retirement of 6% preferred stock of Grasselli company and exchanging each share of Grasselli common stock for 1-5 share of du Pont common stock; Grasselli Chemical Co. manufactures heavy chemicals, fertilizer, zinc metal, zinc dust and explosives and maintains plants, warehouses and offices at Clarksburg, Meadowbrook and Weirton, W. Va., Dothan and Birmingham, Ala.; New Orleans, La.; St. Louis, Mo., and in various other cities; interest of Grasselli Dyestuff Co. not involved in merger.

Motor Bus Lines and Terminals

Ala., Anniston—Dixie Stage Lines, 1207 Noble St., erect \$25,000 bus terminal, 12th St.; S. A. Russell, Contr.

Ala., Anniston—F. B. Caudle, 1901 Noble St., erect bus terminal station on W. 12th St. for Dixie Stage Line Co., 1207 Noble St.; cost \$20,000.

Fla., Jacksonville—Moncrief Motor Bus Co., incorporated; John Richardson, Pickett Belt Rd.

Ky., Louisville—Graham Cab Co., incorporated; Fred S. Graham, Rosina Benham.

Okla., Tulsa—Pioneer Coaches, Inc., applied to State Corp. Comn. for permission to operate bus line from Kansas City to Tulsa.

W. Va., Logan—Pocahontas Transportation Co., Carroll R. Woods, Pres., acquired Logan County Bus Co., operating between 20 and 30 busses in Logan county coal fields; organized new company to be known as Logan Transit Co., capital \$150,000; may erect building; will purchase new equipment and rehabilitate old busses.

Motor Cars, Garages, Filling Stations

Ark., Fort Smith—Hopkins Oil Co., 723 Rogers St., erect filling station, Greenwood and Grand Aves.

Ark., Fort Smith—F. L. Coulter, 2219 N. 13th St., plans erecting filling station, Midland Blvd.

Ark., Little Rock—Dr. W. S. May, 319 1/2 Main St., erect \$40,000 filling station, Broadway; brick, wood, 2 stories, 100x80 ft., wood floors, built-up roofing; Clyde Ferrell, Archt., 307 1/2 W. 27th St.; owner builds.

Ark., Osceola—Driver Chevrolet Co. incorporated; C. B. Driver.

Fla., Bonifay—W. H. Terry erecting service station and garage, Waukesha St. and Old Spanish Trail.

Fla., Fort Pierce—Booker-Motors, Inc., capital \$25,000, chartered; F. L. Knight, C. D. Booker.

Fla., Jacksonville—J. Leon Medlin Co., capital \$25,000, incorporated; J. Leon Medlin, 1159 Riverside Ave.

Fla., Miami—Dorn Motor Co., capital \$20,000, incorporated; J. K. Dorn, 1408 S. Bay Shore Drive.

Fla., Moore Haven—Standard Oil Co. erecting oil and gasoline storage on Atlantic Coast Line tracks.

Fla., Ocala—Thompkins Motor Co. let contract to E. R. Frash for \$20,000 garage, Fort King and Orange Sts.; stucco, brick, hollow tile, 2 stories, 50x150 ft., Spanish tile roof, tile floor.

Fla., Orlando—Colonial Auto Co., incorporated; Fred S. Scott, 138 N. Orange St.

Fla., Orlando—Magnolia Investment Co. receiving bids for garage, Robinson and Orange Ave.; fireproof, steel and pressed brick, 60x131 ft.; David B. Hyer, Phillips Bldg., Archt.

Fla., Tampa—Trezevant's Garage, Inc., chartered; R. G. Trezevant, 608 Tampa St.

Ga., Augusta—Pan-American Petroleum Corp., Cahoun St., erect filling station, Seventh and Ellis Sts.; hollow tile, stucco; Sibert & Robinson, Contrs., 126 Eighth Ave.

Ky., Louisville—Stults Motor Co., incorporated; C. T. Stults, 2222 Emerson Ave.

Ky., Paducah—Herbert S. Melton Co., capital \$40,000, incorporated; Herbert S. Melton, Eloise M. Theobald.

Ky., Versailles—Lewis Motor Co., incorporated; Mrs. Bennie Leedy, James Lewis.

La., New Orleans—Fortson Motors Inc., capital \$40,000, incorporated; Edw. W. Backer, 2007 S. Lopez St.

La., New Orleans—Interstate Tire Co., Inc., capital \$50,000, chartered; Horace L. Brignac, 6318 S. Prieur St.

La., Shreveport—Hudson-Essex, Inc., capital \$50,000, incorporated; James O. Hughes, 145 Prospect Ave.

Md., Baltimore—Elite Laundry Co., 320 W. Biddle St., erect \$50,000 garage; fireproof, brick, conc., 1 story and basement, 55x144 ft., slag roof; Gilbert L. Radier, Archt., 1707 I St., N. W.; Skinker & Garrett, Contr., 1416 F St., N. W., both Washington.

Md., Baltimore—Engineer of Buildings approved permit of Hutzler Brothers, Albert D. Hutzler, Pres., 212 N. Howard St., for erection of \$200,000, 5-story garage and warehouse on north side Saratoga St.; building to be connected with main group of buildings by \$30,000 tunnel, for which application for permission to construct has been made to Bd. of Estimates; Joseph Evans Sperry, Archt., Calvert Bldg.

Md., Baltimore—American Oil Co., American Bldg., erect filling station, Patterson Park Ave. and Fayette St.

Mo., Kansas City—Checker Taxi Cab Co., incorporated; Henry Depping, 1016 Grand Ave. Temple.

Mo., Kansas City—Motor Supply Co. incorporated; A. M. Counterman, 564 Oakland St.

Mo., Kansas City—Frank Warner Motors, capital \$25,000, incorporated; Frank R. Warner, 512 E. 47th St.

Mo., Slater—R. Honeywell plans erecting filling station.

Mo., St. Louis—Missouri Truck Terminal & Storage Co., capital \$500,000, incorporated; C. E. Shofstall, 4935 State Line Rd.

Mo., St. Louis—Creasey Garage Co. incorporated; William R. Creasey, 3849 Shaw St.

Mo., St. Louis—Gross-Butler Motor Co., incorporated; Sol W. Gross, St. Louis, 4426 Lindl. St.

Mo., St. Louis—Thomas Connors, 3500 Oakdale Ave., erect garage, Natural Bridge Rd.; brick, 1 1/2 stories, 100x115 ft., cost \$35,000; Gill & Jackson, Archts., 520 Buder Bldg.

Mo., Webb City—Webb City Wholesale Co. erect conc. garage, 28x100 ft.

N. C., Asheville—White Service, Inc., chartered; Stanley W. White, 42 Furman Ave.

N. C., Charlotte—Denham Tire and Rubber Co., incorporated; John Morgan, 1007 S. Tryon St.

N. C., Greensboro—Crescent Chevrolet Co., erect \$14,000 garage; rein. conc., 2 stories, 170x210 ft., conc. floors; J. M. Workman, Archt., 111 N. Green St., Burns & Hammond, Contr., Jefferson Bldg.

N. C., White Deer—Edwards Chevrolet Co., Inc., chartered; A. P. Edwards, Thomas A. Nourse.

N. C., Wilmington—Raney Chevrolet Co., 112 N. Second St., let contract to U. A. Underwood, Murch Bldg., for erecting garage, Princess St.; brick, conc., steel, 60x165 ft., conc. floors; cost \$50,000.

Okla., Oklahoma City—T. and O. Motor Freight Corp., incorporated; R. O. Bailey, S. W. National Bank Bldg., Oklahoma City.

Tex., Brenham—Alsabrook Motor Co. incorporated; W. G. Alsabrook, E. H. Bell.

Tex., Del Rio—Adams Motor Co. erect \$20,000 building, Pecan and Springs Sts.; hollow tile, 104x112 ft.

Tex., Houston—J. L. Jones, Cotton Exchange, erect \$15,000 garage, Polk and Caroline Sts.; brick, hollow tile, rein. conc., 1 story, 55x80 ft., conc. floors, tar and gravel roof, rein. conc. constr.; Jos. W. Northrop, Jr., Archt., Kirby Bldg. See Want Section—Building Material and Equipment.

Tex., Palestine—A. Cartmell reconstructing building to be occupied by Garrett Motor Co.

Tex., San Angelo—A. A. Motor Co., Inc., capital \$35,000, incorporated; J. M. Hotel, H. V. Wilcoxon.

Tex., San Antonio—Dr. S. H. Taylor, Medical Arts Bldg., let contract to C. H. Blount, 501 Houston Bldg., for remodeling garage, 924 Summit St.; L. Harrington Co., 804 Builders Exchange Bldg., Archt.-Engr.

Tex., Temple—Humble Refining Co. erect 2 filling stations, Third and Downs Sts., and Fourth and Adams Sts.

Railways

Md., St. Louis—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., applied to Interstate Commerce Comn. for authority to have authenticated and delivered to treasury \$35,750,000 of first and refunding mortgage 5% gold bonds, Series G; plans selling \$25,000,000 to Kuhn, Loeb & Co., New York, at 96 1/2% of par and accrued interest, and proceeds used to pay off certain outstanding short term indebtedness and provide funds for road's capital requirements during current year, and to pledge and repledge remaining \$10,750,000 as collateral security for short term notes.

Texas—Interstate Commerce Comn. authorized Waco, Beaumont, Trinity and Sabine Ry. Co., R. C. Duff, Pres., Houston, to issue \$901,500 of capital stock and \$3,000,000 of first mortgage 20-yr. 6% sinking fund coupon gold bonds, Series A; proceeds to be used in retiring outstanding bonds, discharging existing indebtedness, reimbursing treasury of road for expenditures made for additions and improvements and in connection with proposed new construction; Foundation Co., 139 Liberty St., New York, has contract for entire project; complete plans call for construction line from Port Arthur through Beaumont to Elizabeth, Grayburg, Bragg and to connection with existing line at Livingston, in Polk County; reconstruct line from Livingston to Weldon; construct new line from Weldon to Midway, Normangee, Thornton and Mart; construct by-track from Mart to East Waco and to Waco; plans call for 18-ft. crown, No. 4 creosoted ties, 75 or 80 lb. relay rails, with 100% tie plates; plan engine terminals and shop facilities at Beaumont. 9-27

Tex., George West—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., St. Louis, Mo., construct 3500 ft. passing track; Lone Star Construction Co., Milan Bldg., San Antonio, has contract for grading work; company's forces will construct track.

Tex., Uvalde—W. T. Eldridge, Sugarland, advises plans no extension to recently acquired railway line from Uvalde to Camp wood. 10-24

West Virginia—Directors of Virginian and Western Ry., subsidiary of Virginian Ry. Co., A. M. Tranzott, Ch. Engr., Norfolk, Va., authorized building of 40-mile extension of railroad from Elmore to Gilbert; through Guyandotte River valley; cost \$7,500,000; will call for bids soon for first 15 miles of line from Elmore to Pineville; will construct later remaining 25 miles including 5 tunnels. 8-9

Railway Shops and Terminals

Tex., Smithville—Missouri-Kansas-Texas Lines, Railway Exchange Bldg., C. Halle, Pres., St. Louis, Mo., erect 8-stall roundhouse and division machine shop.

Tex., Trinity—Waco, Beaumont, Trinity & Sabine Ry. Co., P. T. Hubbell, V.-P., Beaumont, contemplates placing main shops here. (See Railways, Tex., Beaumont.)

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Montgomery—City, J. L. Cobbs, Treas., receives bids Nov. 6 for 5,000 yd. paving on Park Place, Mulberry to Forest Ave.; 4,500 yd. on Fifth St., Mulberry to P. neleaf; L. M. Garrett, City Engr.

Ark., Booneville—City, H. Leo Barlow, Mayor, contemplates grading, draining, curbing, guttering and paving Main and Third St., Bennett and Cook Ave.

Ark., Searcy—City receives bids soon for grading, curbing, conc. paving 15 blocks, Street Improvement Dist. 13, cost \$45,000.

Fla., Bradenton—City, R. K. Van Camp, Commr. of Public Works, receives bids Nov. 7 for 2,895 lin. ft. type "A" and "B" curb construction; 9,600 sq. yd. pavement and base, 250 lin. ft. 12-in. storm sewer pipe connections; L. L. Hine, Clk.

Fla., Bronson—State Road Dept., Tallahassee, receives bids on or before Nov. 15 for Gulf Coast Highway and lateral feeder roads in Levy County; will sell bonds. 10-18

Fla., Jacksonville—City Comsn., M. W. Bishop, Sec., receives bids Nov. 19 for 990 sq. yd. 6-in. conc. pavement, Union St., Parker St. to Talleyrand Ave.

Fla., Jacksonville—City, M. W. Bishop, Sec., plans paving Dennis St. Myrtle to Stockton; Union, Florida to Talleyrand Ave.; sold \$45,000 bonds.

Fla., Jacksonville—City Comsn., M. W. Bishop, Sec., plans expending \$300,000 to pave various streets; \$250,000, to widen Main, Beaver, Pearl, Park St.; W. E. Shedd, City Engr. See Financial News.

Fla., Stuart—Martin County Commrs. plan expending \$40,000 to repair roads and bridges damaged by storm. See Financial News.

Ga., Macon—Bibb County Commrs. considering widening Forsyth road to 37 ft. from city limits to point near Shinholster's store.

Ga., McRae—State Highway Dept., East Point, plans receiving bids in Spring for 9 mi. conc. paving, State Route 27, Telfair County; estimated cost \$144,000.

Ga., Pearson—Atkinson and Berrien Counties plan grading Route 50, from Willacoochee, Atkinson County, to Berrien County line; bridge across Willacoochee Creek.

Ky., Monticello—State Highway Comn., Frankfort, appropriated \$50,000 for various roads in Wayne County: Somerset-Monticello; Monticello-Jamestown; Monticello-Whitley City; Cooper Pike, etc.

Ky., Mount Vernon—Town Bd. of Trustees plans rebuilding Dixie Highway through town.

La., Benton—Louisiana Highway Comsn., Baton Rouge, receives bids Nov. 22 for 17,862 mi. 20-ft. hard surface Dixie-Overland Highway from Bossier City to point east of Webster-Bossier line, in Webster Parish; Warrenite bitulithic, bit. conc., sheet asphalt, or cold mixed limestone rock asphalt on conc. base; J. M. Fourmy, State Highway Engr.

La., Crowley—City, Bd. of Directors, plans paving Ave. G and F and extending storm sewers and drainage system; Merrill Bernard, City Engr.

La., Lake Charles—City, Harry J. Geary, Mayor, receives bids Nov. 5 to widen Bilbo St., Kirby to Broad; 1500 sq. yd. 6-in. conc. pavement, 4000 sq. ft. sidewalk; E. L. Grahm, Commr. of Streets and Parks. 10-25

La., Natchitoches—City, O. F. Himel, Sec. Treas., receives bids Nov. 8 to pave with rein. conc. Amulet St., Jefferson to Second; 1333 sq. yd. 6-in. rein. conc.; Charles D. Evans, Consit. Engr.

La., Natchitoches—City, O. F. Himel, Sec. Treas., receives bids Nov. 8 for paving Touline St., Jefferson to New Second; 400 cu. yd. excavation, 2965 sq. yd. 5-in. rein. conc. paving; conc. gutter and driveways; Charles D. Evans, Consit. Engr., Shreveport.

La., Natchitoches—City, O. F. Himel, Sec.

Treas., receives bids Nov. 5 for 1816 cu. yd. excavation, 6249 sq. yd. 6-in. rein. conc. pavement, 5335 lin. ft. combined curb and gutter, 4 catch basins, 448 lin. ft. 12 to 18 in. conc. pipe, 4 manholes; Charles D. Evans, Consit. Engr.

La., New Orleans—City Comn. Council plans expending \$85,000 for asphalt on conc. surface, 16 blocks, Broadway and Lowerline St.

Md., Baltimore—City, Bd. of Estimates approved expending \$66,300 to pave sections of 7 streets and avenues: Chestnut, Union, Elm Ave.; Thirty-seventh, Thirty-eighth St.; Charles F. Goob, Ch. Engr.; Nathan L. Smith, Highway Engr.

Md., Salisbury—Wicomico County plans road building. See Financial News.

Miss., Holly Springs—City, Chas. N. Dean, Mayor, receives bids Nov. 19 for 5300 cu. yd. excavation, 10,400 sq. yd. conc. street paving, 5650 lin. ft. combined curb and gutter, drains, etc., in Improvement Ord. No. 137 and 138; Robert L. Totten, Inc., Consit. Engr., Birmingham, Ala.

Miss., Holly Springs—City, Mayor and Bd. of Aldermen, plan paving College St. and Walthall Ave.

Miss., Raleigh—Smith County Bd. of Suprs., receives bids Nov. 6 for 10.58 mi. State trunk road between Forest and Raleigh; 109,859 cu. yd. excavation and borrow, 20,852 lb. rein. steel.

Miss., Union—City plans \$75,000 grading, curbing and conc. paving.

Mo., Jefferson City—City, H. A. Nall, Clk., receives bids Nov. 5 to grade and pave with cement conc. Vistar road, between Frances St. and Mo.-Pac. R. R. right of way; F. D. Ross, City Engr.

Mo., Joplin—City, O. P. Mahoney, Commr. of Streets, plans opening Pennsylvania Ave. through to Union Depot.

Mo., Moberly—City Council receives bids Nov. 5 to gravel Patton St., North Morley to Porter St., and establish Improvement Dist. No. 14; Carl Haynes, City Engr.

Mo., Mountain Grove—City, Clk. Hillsabeck, plans 9,000 sq. yd. paving on West First St., from end of present paving, Oakland Ave. to State Highway No. 60.

Mo., Springfield—City plans widening Jefferson Ave., Maple Park cemetery to Ullman St.

Mo., St. Joseph—City, Bd. of Public Works, plans repaving with conc. Thirteenth St., Jule to Messanie.

Mo., St. Joseph—City, Bd. of Public Works, received low bid from Bridgeford Construction Co., to pave Nebraska Ave., Barbara St. to King Hill Ave.

Mo., St. Louis—Bd. of Public Service plans grading and alternate types of paving on 18 streets and avenues, including Oriole, Geyer, Alexander St.; Dewey and Knox Ave.; asphalt, Warrenite or amiesite paving on 8 streets, avenues, including California, Humphrey St.; rebuild Lamp Ave., etc.; W. W. Horner, City Engr.

N. C., Charlotte—City Commrs. plan opening and extending Laurel Ave., between East Fifth St., Rosemont and Vail Ave.; Wayte Thomas, City Engr.

N. C., Goldsboro—Bd. of Aldermen plans paving. See Financial News.

N. C., Greenville—State Highway Comn., Raleigh, plans improving road and building approaches to new bridge under construction over river between West Greenville and Graceland cemetery.

Oklahoma—State Highway Comn., Oklahoma City, plans letting contract to grade and drain U. S. Highway No. 75, south of Calvin in Hughes and Coal Counties.

Oklahoma—State Highway Dept., Oklahoma City, received low bids for 2 roads: Okfuskee County—12.52 mi. 2-in. rock asphalt on present gravel road, Highway No. 266, from Okmulgee County line to Okemah, C. S. Beekman, Oklahoma City, \$186,614; Choctaw County—6.09 mi. Highway 70, Hugo to intersection with State Highway No. 10, T. E. Ward, Oklahoma City, \$90,284. 10-11

Oklahoma—State Highway Comn., Oklahoma City, plans improving national old trails road over Mojave desert; ocean-to-ocean highway over Colorado desert.

Okla., Ada—City, Lee Daggs, Clk., plans grading, paving 7 blocks Stockton Ave., 30 ft. wide, \$25,000; Black & Veatch, Engr., Mutual Bldg., Kansas City, Mo.

Okla., Altus—City plans 5450 sq. yd. conc. paving, Hickman St., \$28,150; 7100 sq. yd. Wayne St., \$30,440; J. C. Chisum, Engr.

Okla., Anadarko—City plans grading and 10,600 sq. yd. conc. paving, Oklahoma St., \$31,000; R. O. Bradley, Engr., Chickasha.

Okla., Blackwell—City plans paving Paw-

nee St., Second to First; Rock Island St., from Cherokee St., north.

Okla., Clinton—City plans expending \$36,266 for grading, 11,800 sq. yd. conc. paving, Hays Ave.; Benham Engineering Co., 106 Perrine Bldg., Oklahoma City.

Okla., El Reno—City plans grading, 8800 sq. yd. conc. paving Canadian and North Bickford St., \$25,000; E. W. Fassett, Engr.

Okla., Enid—City plans grading and 9440 sq. yd. conc. paving, Medford St., \$28,660; F. C. Magruder, Engr.

Okla., Guymon—City plans expending \$34,975 for grading and 10,600 sq. yd. conc. paving Dist. 3; F. E. Devlin, Engr., Wichita, Kan.

Okla., Mangum—City plans grading, 13,000 sq. yd. conc. paving, \$41,000; E. W. Gnat, Engr., 1116 W. Main St.

Okla., Muskogee—City plans 9,100 sq. yd. conc. paving, grading in Dist. 204, \$27,736; H. Dixon, Engr.

Okla., Newkirk—Kay County plans graveling 7 roads totaling 50 miles: 11 mi. Ponca City-Blackwell; 7 mi. Ponca City-Whiteagle; 5 mi. east of Braman; 9 mi. west of Tonkawa; 10 mi., west of Blackwell; 6 mi., east of Newkirk; 3 mi., north of Kaw City; Joe S. Clark, County Engr.

Okla., Oklahoma City—City, E. M. Fry, Mgr., plans expending \$250,000 for street paving; W. W. Small, City Engr.

Okla., Perry—Noble County plans expending \$45,000, for 89,800 cu. yd. grading, Miller Township roads; A. J. Titus, Engr., Ponca City.

Okla., Roosevelt—City plans 11,000 sq. yd. conc. paving, grading, First and Parker St., \$34,100; C. Riffin, Engr., 603½ W. Main St., Oklahoma City.

Okla., Shawnee—City plans expending \$33,475 for grading, and 6,770 sq. yd. sheet asphalt paving, North Ave.; \$36,945, grading and 7,160 sq. yd. sheet asphalt paving, South Minnesota Ave.; E. T. Archer & Co., Engrs., 600 New England Bank Bldg., Kansas City, Mo.

Okla., Sulphur—State Highway Comn., Oklahoma City, appropriated \$17,595 to gravel 7½ mi. highway in Murray County.

Okla., Tulsa—City Comsn. received low bid from W. B. Carter, 1509 East Admiral Place, \$1.95 per sq. yd., for 7-in. plain conc. paving, Street Improvement Dist. 901, including Gary Ave. and Seventeenth St.; B. M. Hart, City Engr.

Okla., Tulsa—City Comn. plans grading and 7,100 sq. yd. sheet asphalt paving, Young St., \$29,764; B. M. Hart, City Engr.

Okla., Tulsa—Tulsa County Commrs., preliminary plans to grade 6 mi. 30-ft. West Sand Springs road, \$35,000; 8 mi. 30-ft. West Easton Blvd., \$45,000; 27,100 sq. yd. conc. Mohawk road, \$60,000; H. A. Parker, Engr.

Okla., Weatherford—City plans grading, 13,000 sq. yd. conc. paving, Eighth St., \$40,000; H. H. Clark, Engr.

Okla., Wilburton—City plans expending \$33,000, for grading and 11,000 sq. yd. conc. paving, C and College St.; A. Johnson, City Clk.

South Carolina—State Highway Comn., Columbia, received low bids for 9 roads and 5 bridges: Aiken-Saluda Counties—12.1 mi. Route, Edisto River to Batesburg; section of Route 9, through Monetta, Robert G. Lassiter & Co., Citizens Bk. Bldg., Raleigh, N. C., \$294,713; Anderson-Oconee Counties—13.582 mi. Route 15, Anderson to Clemson College, Langston Construction Co., 26 Wall St., Orlando, Fla., \$252,446; Dorchester County—9.582 mi. Route 2, Harleyville to Orangeburg County line, F. J. McGuire, Trinity Ave., Durham, N. C., \$200,635; Cherokee County—4.93 mi. top soiling, Route 10, Chesnee to North Carolina line, Mabry & Deneen, Union, \$16,900; Chesterfield County—8.6 mi. Route 25, Pageland to Jefferson, J. L. Carroll, 2030 Divine St., Columbia, \$39,550.

In Greenwood County—9.02 mi. top-soil, Route 25, end of pavement to Edgefield County line, Langford & Milford, Greenwood, \$38,021; Union County—8.44 mi. top-soil, Route 176, Buffalo to Spartanburg, W. C. McCoy, La Fayette, Ala., \$48,877; Laurens County—4.4 mi. top-soil, Route 10, Enoree to Ora, Langford & Milford, \$36,477; Spartanburg County—17.04 mi. Route 56, Pauline-Enoree road, Smith & Bradford, Macon, Ga., \$96,890; Chester County—bridge over Sandy River and rein. conc. culvert, John's Creek, Route 215, D. M. Rickenbacker, Union, \$24,433; Oconee-Pickens Counties—bridge and conc. piers over Keowee River, Route 183, Palmer Construction Co., Florence, \$11,505; three steel pony spans over Keowee River, Route 183, Austin Brothers Bridge Co., 1195 Mickelberry St., S. W., Atlanta, Ga., \$7,765. 10-18

S. C., Leesville—City, E. P. West, Clk., receives bids Nov 6 to grade and drain Main and Church St., and Railroad Ave.: 4,000 cu. yd. excavation, 5,000 sq. yd. sheet asphalt, asphaltic conc. or plain conc., 18,000 lin. ft. conc. integral curb and gutter, etc.; Nisbet Wingfield Co., Inc., Engrs., Augusta, Ga.

S. C., Anderson—State Highway Dept., Columbia, plans expending \$25,000 for gravel surface treatment on Anderson-Greenville Highway.

Tenn., Lebanon—Wilson County, F. M. McDaniel, Clk., plans expending \$500,000 for roads. See Financial News. 10-18

Tenn., Morristown—Bd. of Aldermen authorized expending \$25,000 for additional paving.

Tenn., Morristown—Hamble County Court, J. E. Burke, Chmn., plans improving road, from Morristown to Jefferson County line.

Tenn., Nashville—Dept. of Highways and Public Works, plans 18 mi. crushed stone treatment on Franklin road, between Nashville and Franklin; \$14,000 available.

Texas—State Highway Comm., Austin, receives bids Nov. 19, tentative date, for 2 roads: Hays County—4.557 mi. grading, draining, Highway 123, Guadalupe County to city limits of San Marcos; Capt. A. Schlafli, Res. Engr.; Mitchell County—15.059 mi. grading, draining, Highway No. 1, Westbrook to point 6.4 mi. east of Colorado, W. J. Van London, Res. Engr.; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, appropriated funds for maintenance and repairs of highways in 5 counties: McLennan County—\$12,800 to re-shoulder and re-ditch 32 mi. Highway 7, point east of Waco to point 4½ mi. from Cooleidge, Limestone County; Panola County—\$10,000, to grade and drain 5 mi. Highway 26-A, Beckville to Carthage; Shackelford County—\$4,080 for asphaltic oil treatment, Highway No. 18; Smith County—for additional maintenance, Highway No. 37; Travis County—\$8,000, repair base and lay asphalt surface on 2 mi. Highway 20, Manor, east; Gibb Gilchrist, State Highway Engr.

Tex., Abilene—City plans expending \$100,000 for street paving. See Financial News.

Tex., Albany—State Highway Comm., Austin, receives bids Nov. 19, tentative date for 17.193 mi. grading and draining, Highway 23, Shackelford County; Jas. E. Pirie, Res. Engr.

Tex., Albany—State Highway Comm., Austin, appropriated \$4,080 toward surfacing 13.6 mi. Highway No. 18, Shackelford County, with asphaltic oil; surface later with permanent type pavement. Gibb Gilchrist, Highway Engr.

Tex., Bay City—Matagorda County, Arthur Harris, Judge, plans 12.561 mi. grading, bridges, Highway 58, Colorado River to Tres Palacios Creek; Highway Comm. probably receive bids Nov. 19; E. N. Gustafson, County Engr.

Tex., Beaumont—Jefferson County Comms. Court considering shelling dirt road in Road and Bridge Dist. No. 2 between Port Neches and Port Arthur; Proctor St. extension from city limits to Bernhardt's road, then to Beaumont-Port Arthur Highway.

Tex., Benjamin—Knox County, Oliver W. Lee, Judge, probably receive bids soon for 19.250 mi. grading and draining, Highway 30, Benjamin to Baylor County line; H. S. Kerr, Res. Engr. 10-4

Tex., Cameron—State Highway Comm., Austin, receives bids soon for Highway 43 through Rockdale; Gibb Gilchrist, State Highway Engr.

Tex., Comanche—City plans expending \$50,000 for street paving. See Financial News.

Tex., Corsicana—Navarro County, Warren Hicks, Judge, plans grading, draining and permanent paving, Highway 32, Freestone County line to Richland, \$250,000; J. W. Alger, Res. Engr.

Tex., Corsicana—Navarro County, W. Hicks, Judge, receives bids Nov. 12 to grade, bridge and conc. pave Lateral road No. 2, sections A, B and C; McClendon & Purnell, Engrs.

Tex., Dallas—City Comm. receives bids soon for storm sewer culverts at Jimtown road and Marlboro St.

Tex., Edinburg—Hidalgo County, Cam Hill, Clk., receives bids soon for 50 mi. roads, Pharr-San Juan Dist., Hidalgo Road Dist. No. 8; Pat Devine, County Engr.

Tex., Edinburg—Hidalgo County, Cam Hill, Clk., receives bids Nov. 7 for 36 mi. paving and graveling roads in Road Dist. No. 3, Alamo Dist.; \$750,000 available. Lately noted bids Nov. 3. 10-25

Tex., El Paso—El Paso County, E. B. Mc-

Clintock, Judge, plans 2 mi. 20-ft. pavement, Highway No. 1, Val Verde Cut-off east of El Paso; F. E. Wilson, County Engr.

Tex., Fort Worth—State Highway Comm., Austin, will let contract in Nov. for last section Camp Bowie Blvd., Sanguinet St. to city limits; estimated cost \$130,000; Tarrant County and State plan extending boulevard to Kuteman Cutoff, to join Weatherford road.

Tex., Fort Worth—Tarrant County, S. D. Shannon, Judge, and State Highway Comm., R. S. Sterling, Chmn., Austin, will make surveys and prepare plans for Fort Worth-Jacksboro and Fort Worth-McKinney Highways.

Tex., Fort Worth—City, Wm. Bruce, Mayor, plans widening Henderson St.; George Kemble, Asst. City Atty.

Tex., Fredericksburg—Gillespie County, Herman Uesner, Judge, plans improving Highway 20, Fredericksburg to Kimble County line.

Tex., Fredericksburg—Gillespie County, Herman Uesner, Judge, plans grading, bridges Highway 124, from Llano County line to Kerr County line; \$100,000; State Highway Comm., Austin, granted \$50,000 State aid.

Tex., Galveston—City Comm. receives bids soon to pave Ave. L, Twenty-first to Tremont St.

Tex., Galveston—Galveston County, E. B. Holman, Judge, plans expending \$600,000 to improve 3 roads: Conc. Highway 58; rock asphalt topping, on shell base, Texas City-Kemah road; similar treatment on 5 mi. S road, on Galveston Island. See Financial News.

Tex., Greenville—State Highway Comm., Austin, will asphalt top Precinct 1 section of Greenville-Commerce Highway, Hunt County; approximate cost \$35,000.

Tex., Houston—City plans receiving bids soon to gravel 6 streets, including Birch, Oaks, Staples; considering 2-course bit. surface treatment on gravel base, MacGregor Way, Lawndale to Sylvan road; Ben S. Davidson, Commr. of Bridge and Street; J. C. McVea, City Engr.

Tex., Houston—City plans widening Leeland Ave. to 45 ft., Houston Belt and Terminal tracks to Scott St.; J. C. McVea, City Engr.

Tex., Houston—Harris County, Norman Atkinson, Judge, plans 19.904 mi. grading, draining, rein. conc., Highway 6, Houston-Brenham road, Eureka to Cypress; A. J. Wise, County Engr.

Tex., Jacksonville—City plans expending \$100,000 for street paving. See Financial News. 9-27

Tex., Livingston—Polk County plans \$125,000 road building in Road Dist. No. 1. See Financial News. 9-27

Tex., Lockhart—Caldwell County plans expending \$150,000 for roads in Luling Precinct: \$280,000, roads in Fentress-Martindale Precinct. See Financial News. 10-4

Tex., Palestine—City, Street Commr. Devanport, plans widening Ave. A, between Old and New Town; joining Palestine-Elkhart highway with paving; Tucker Highway to city paving on Oak St.

Tex., Port Neches—Jefferson County Comms., Beaumont, plan ¼ mi. shell on Lambert road, near Port Neches.

Tex., Rockdale—City, W. E. Gaither, Mayor, receives bids Nov. 8 for 118,000 sq. yd. pavement, 56,000 lin. ft. curb, 12,000 sq. ft. sidewalks.

Tex., Runge—City plans paving streets on each side of 2 highways through city. See Financial News.

Tex., Runge—State Highway Comm., Austin, plans Highway 72 through Runge, Karnes County; H. P. Stockton, Res. Engr.

Tex., San Angelo—City Comm. will pave 115-ft. strip, 20 ft. wide, on South Onakes St.

Tex., San Benito—City Comm. contemplates hard surfacing East Robertson St., Reagan to McCallough St.; J. Scott Brown, Mayor.

Tex., Sherman—Grayson County plans grading and bridging Highway 91, Denison to Preston Bend, \$31,295 available.

Tex., Sinton—San Patricio County plans \$200,000 road building in Dist. No. 3. See Financial News.

Tex., Smithville—Bastrop County, E. H. Perkins, Judge, City, J. C. Mills, Mayor, plan paving Highway 71 through town of Smithville; B. H. Faber, Engr.

Tex., Snyder—Scurry County, H. L. Holley, Judge, plans 9.233 mi. grading, draining, highway, Nolan County line to Hermleigh; S. C. Dougherty, Res. Engr.

Tex., Waxahachie—State Highway Comm., Austin, appropriated \$200,000 toward paving

Beckley road, Highway 6, from Dallas County line to end of present conc. paving near Sterrett, Ellis County.

Tex., Weatherford—Parker County, J. E. Carter, Judge, plans 3,485 ft. paving east, and 3,000 ft. west of Weatherford, Highway No. 1, also widening bridge across Town Creek.

Tex., Wellington—Collingsworth County Comms. Court plans \$400,000 to pave Highway No. 4, north to south side of County, from Wheeler County to Childress County. See Financial News.

Virginia—State Highway Comm., R. G. Shirley, Chmn., Richmond, receives bids Nov. 13 to grade and drain 2 roads in Madison County: .66 mi., Route 16, from point south of Robertson River 17,573 cu. yd. excavation; .89 mi. Route 16, from point south of intersection with Route 37, 13,534 cu. yd. excavation.

Va., Danville—Quartermaster Supply Officer, Washington, D. C., receives bids Nov. 8 to lay conc. walks and spread gravel on existing driveway and walk, U. S. National Cemetery, Danville.

Va., Hopewell—Quartermaster Supply Officer, Washington, D. C., receives bids Nov. 8 conc. walks in City Point National Cemetery, Hopewell.

W. Va., Clarksburg—State Road Comm., Charleston, may complete 1 mi. State Route No. 77, through Bear Mountain region; extend Oral hard road toward improved road at Rosemont.

W. Va., Huntington—City, Fred E. Reed, Jr., Commr. of Streets and Sewers, receives bids Nov. 5 to grade curb and pave Twelve and One Half alley, Third to Fourth St., West; A. B. Maupin, City Engr.

W. Va., Parkersburg—City plans letting contracts about middle of Feb., 1929, for paving, widening, opening and resurfacing with asphalt, various streets; \$80,000 available.

W. Va., St. Marys—Pleasants County plans \$65,000 road in Grant Road Dist. See Financial News.

W. Va., Summersville—Nicholas County Comms. received low bid from McComas & Kestic, Huntington, for 6.725 mi. grading, draining, Duffy Branch-Persinger road. 9-27

Contracts Awarded

Ala., Birmingham—City Comm., let contracts, \$209,868, for 31 street paving projects and other improvements; Walter J. Bryson Paving Co., Jacksonville, Fla.; Southern Roads Co., Pioneer Bldg.; Newell Construction Co., Martin Bldg.; Independent Paving Co., 3828 1st Ave.; H. N. Bowdry, Morgan-Hill Paving Co., Ala. Power Bldg.; Dunn Construction Co., Lincoln Life Bldg., all Birmingham; Christie-Hutchinson & Burton; Fromhold Brothers; J. J. Goddard; Sinclair Transfer Co., 2846 20th St.

Ark., Arkadelphia—Bd. of Comms. Street Improvement Dist. No. 5 let contract to Harvey Brown, City Hall, North Little Rock, \$89,000, for 36,000 sq. yd. rein. conc. paving on 35 blocks in Dist. 9-6

Ark., Pine Bluff—Philpot Construction Co., 116 Chest St., will resurface with asphalt 8 blocks Baroque St.

Ark., Prescott—City let contract to Otto Yinglin, Texarkana, \$41,000 for 16 blocks rein. conc. paving, Improvement Dist. No. 6. 8-16

Fla., Daytona Beach—Southern Paving Co., 236 S. Beach St., will lay asphalt surface on coquina rock base on Volusia Ave., Florida East Coast tracks to Second St. 8-30

Fla., Miami Beach—City, C. W. Tomlinson, Clk., let contract to Morgan-Hill Paving Co., 71 N. E. 21st St., Miami, \$9,500 for paving in various sections of city and on Hibiscus Island. 10-11.

La., Benton—Louisiana Highway Comm., Baton Rouge, let contract to Ayres & Greis, Hope, Ark., \$21,213, for 2.20 mi. Plain Dealing-Haynesville Highway, Bossier Parish.

La., Cameron—Louisiana Highway Comsn., Baton Rouge, let contract to C. R. Cummings Co., Cleveland, Ohio, to grade new Gulf Beach Highway through marsh below Hackberry to Cameron, Cameron Parish.

Md., Baltimore—City, Bd. of Awards, let contract to Baltimore Asphalt Block & Tile Co., Monroe and Laurens Sts., \$50,746, for 12,550 sq. yd. sheet asphalt, conc. base, 8050 lin. ft. conc. curbing, etc., 2100 cu. yd. excavation, Cont. 488; to Mahoney Bros., Inc., 1111 Rutland Ave., \$22,870, to grade and pave with cement conc. 7 streets in Cont. 489. 10-4

Miss., Clarksdale—City, R. E. Stratton, Jr., Clk., let contract to W. R. Ellis, Clarksdale, to pave with conc., Sunflower St., Yazoo & Mississippi Valley R. R. to Fourth St.; \$8,500 to \$9,000. 10-4

Miss., Forest—Town, Mayor and Bd. of

Aldermen, let contract to Merrill Engineering Co., Jackson, \$11,531, for paving, curb and gutters, storm sewers, water mains and constructing conc. bridge over Dog River on Main St.; Massena L. Culley, Engr., Lampston Bldg., Jackson. 10-4

Miss., West Point—City let contract to Simmons Construction Co., West Point, for conc. curb and gutter and grading, Calhoun St., Main St. to end of street; will asphalt street in early spring.

Mo., Moberly—City Council let contract to Lynch-McDonald Construction Co., Moberly, to gravel Hinkley and Hinton Ave.; Hinkley and Chandler St.; Carl Haynes, City Engr.

Mo., Richmond Heights, St. Louis—City let contracts, \$38,144, to C. M. Berry Construction Co., 7370 Manchester Ave., Maplewood, to pave with rein. conc. 4407 sq. yd. Lindberg Drive; Carlson Construction Co., 3516 Greenwood Blvd., Maplewood, 3960 sq. yd. Bennett Drive; Fehlig-Ferrenbach, Inc., 3500 Hickory St., St. Louis, 883 sq. yd. conc. Plateau Ave.

N. C., Winston-Salem—City, Thomas Barber, Mayor, let contract to Saunders & Co., for sidewalks on Spruce, Liberty and Second St.; to C. A. Heilig, \$5,342, for sidewalks on Sunset Drive, Bond, Shawnee and Vine St. 10-25

Okla., Altus—Highway Construction Co., Kennedy Bldg., Tulsa, has contract, \$22,938, for 4 blocks of paving and one alley.

Okla., Medford—Ward, Beekman & Brooks Co., 1801 E. 9th St., Oklahoma City, has contract for 3 blocks of conc. paving.

Okla., Muskogee—City let contract to Gravelle & Hamblin, Barnes Bldg., Muskogee, \$53,467, to pave sections of 5 streets in Dist. No. 204; Hugh Dickson, City Engr.

Okla., Oklahoma City—City, M. Peshek, Jr., Clk., let contract to Western Paving Co., Petroleum Bldg., \$26,418, to pave Drexel Blvd.; \$51,000 for Warrenite bitulithic surface Twenty-second St.; conc. pave Fortieth St. and Walker Ave.

Tenn., Chattanooga—Brown Construction Co., 706 Manning St., has contract to pave Dodson Ave.

Tenn., Knoxville—City, W. W. Mynatt, Dir. of Public Service, let contract to Morgan & Gorman, Knoxville, \$12,279, for sidewalks, curb and gutter on Beaumont Ave., and extension of Fort Sanders Ave., Logan to Western Ave. 10-18, 9-6

Tex., Corpus Christi—State Highway Comm., Austin, let contract to Standifer Brothers, Wells, for 1.54 mi. conc. top on Agnes St. extension.

Tex., Dallas—Dallas County Commrs. Court, Charles E. Gross, Auditor, let contracts for 2 roads: Jefferson Ave. Extension road, city limits to Tarrant County line, American Asphalt Co., \$53,465; gravel and conc. pave Barnes Bridge road from Belt Line road to point 3 mi. east, B. G. Ferguson, \$52,076. 10-4

Tex., Dallas—Dallas County Commrs. Court, Charles E. Gross, Auditor, let contract to Janes Contracting Co., 805 Trunk St., \$221,641, for 4 mi. 40-ft. conc. paving, Buckner Blvd., Seagoville Road to East Pike. 9-27

Tex., Houston—City let contract to Brown & Root, Georgetown, \$12,208, for two course bit. surface treatment, Ashland Ave., Seventeenth to Twenty-fifth St. 10-18

Tex., Houston—Scott Shambaugh, 1401 Dowling St., has contract, \$60,000 to pave Harvard St. in Heights, from Third to Twelfth St.

Tex., Waxahachie—Ellis County let contract to Purvis & Son, Ft. Worth, \$19,875, to grade and drain 4.07 mi. Milford Dist., State Highway No. 6; to F. L. McElwrath, Fort Worth, \$22,287, for conc. bridges: Over Mill Creek; over Richland, south of Milford.

Va., South Norfolk, Norfolk—City, B. H. Gibson, Mayor, let contract to Hudson & Scruggs, Va. Natl. Bank Bldg., Norfolk, for 65,000 sq. yd. 6-in. conc. pavement, 23,000 cu. yd. excavation, 11,000 ft. rein. conc. pipe for storm drains; Shearman Concrete Pipe Co., Inc., J. E. Johnson, Mgr., Groves Bldg., Knoxville, Tenn., furnish rein. conc. pipe; cost \$175,000; G. Hubbard Massey, Conslt. Engr., Dickinson Bldg., Norfolk.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Montgomery—Hodgson-Jones Construction Co., U. Perry St., has contract for sanitary sewers on Fairview.

Ark., Osceola—City plans \$91,879 sewer improvements; Thomas H. Allen, Commercial Bk. Bldg., Memphis, Engr.

Ark., Waldo—City plans \$25,000 sanitary sewer system; E. T. Archer & Co., Engrs., 609 New England Bldg., Kansas City, Mo.

Fla., Bradenton—See Roads, Streets, Paving.

Fla., Jacksonville—City plans voting on sewer bonds. See Financial News.

Ky., Ashland—City votes Nov. 6 on \$400,000 sewer bonds.

Ky., Danville—See Water Works.

Ky., Princeton—Carey-Reed Co., 612-13-14 Guaranty Bank Bldg., Lexington, has contract at \$213,527 for sanitary sewers.

Ky., Sturgis—Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engineers for \$25,000 sewers and disposal plant; Christenson Bros. (Urbana, Ill., have contract at \$67,920.

La., Shreveport—City Comsn. receives bids Nov. 13 for storm sewers, Jordan St. to Alexander Ave., Gilbert St. to Gladstone and Stephenson Sts.; cost \$20,000; Flenniken Construction Co., Cahn Bldg.; R. O. Works, E. E. Blessings, 617 Hope St.; F. B. Jones, 316 Prospect St., and W. T. Tooley, 2052 Texas Ave., estimating.

Md., Baltimore—Bd. of Awards receives bids Nov. 7 for sanitary sewers and storm drains in Sewer Dists. 47 and 49 and H-L. See Want Section—Bids Asked.

Miss., McComb—City may issue \$30,000 bonds for storm drainage and \$10,000 bonds for parks and playground.

Miss., Decatur—J. B. McCrary Engineering Corp., Bankhead Ave., Atlanta, Ga., has contract for sewerage at \$14,326 and at \$14,710 for water works; Layne Central Co., Chelsea Ave., Memphis, Tenn., for well; Chattanooga Boiler & Tank Co., 1011 E. Main St., Chattanooga, for tank and tower; Columbia Iron Works, 2501 Chestnut Ave., Chattanooga, for valves and hydrants; Morgan & Co., Edwards Hotel Bldg., Jackson, Engrs. 10-4

Miss., Meridian—City rejected bids for 8-in. to 15-in. sewers, manholes, concrete filter plant, 750,000 gal. conc. settling basin, clear water basin, etc.; will call for new bids; J. C. Watts, Engr. 9-27

Miss., Meridian—City receives bids Nov. 6 for sewers. See Want Section—Bids Asked.

Miss., Waynesboro—Merrill Constr. Co., Lamar Bldg., Jackson, has contract for storm sewers.

Mo., Ferguson—City plans \$150,000 relief sewerage system and disposal plant; Russell & Axon, Engrs., 1945 Railway Exchange Bldg., St. Louis.

Mo., Springfield—Russell and Axon, 1945 Ry. Exchange Bldg., St. Louis, Conslt. Engrs., for covering Jordan Creek between Main and Boonville Ave., converting stream into sewer. 8-9

Okla., Hinton—Benson & Farrar, 102 S. Second St., Guthrie, have contract for sanitary sewer system and disposal plant.

Okla., Okene—F. L. Brown, 410 E. Logan St., Guthrie, has contract for sanitary and outfall sewer system. 10-4

Okla., Weatherford—City let contract to Sherman Iron Works, 18 E. Main St., Oklahoma City, for 10,420 ft. vit. clay outfall sewers.

Tenn., Knoxville—Cherokee Construction Co., 301 N. Broad St., has contract at \$40,720 for miscellaneous sanitary and storm sewer work for six months.

Tex., Ennis—City, C. W. Bryant, Mayor, plans improvement to sewer system.

Tex., Houston—Walker & Elder, have contract for Oxford sewer from White Oak Bayou to Sixteenth St.; cost \$125,000.

Tex., Mt. Vernon—Klein Bros., Mt. Vernon, has contract for improvements to sewerage system. 9-20

Tex., Port Arthur—City plans sanitary sewer improvements from Woolworth Bldg. to Beaumont Rd.

Tex., San Angelo—City plans storm sewers on S. Abe St.

Tex., Waco—City plans \$250,000 sewers; J. H. Strange, City Engr.

Va., Burkeville—See Water Works.

Va., Fairfax—See Water Works.

W. Va., Glendale—Town, H. M. Stewart, Mayor, plans installing sewer system.

W. Va., Parkersburg—J. D. Ankrom, 821 Quincy, Parkersburg, has contract for 8-in. sanitary sewer Lulu and Andrews Sts.; city receives bids Nov. 13 for Section "B" of proposed system of sewers. 10-18

Telephone Systems

Ark., Pine Bluff—Southwestern Bell Telephone Co., St. Louis, Mo., erect \$10,000 addition to building, Second Ave. and Walnut St.; A. A. Garrett, Dist. Mgr.

D. C., Washington—Bd. of Directors of Chesapeake and Potomac Telephone Co., Edwin F. Hill, Information Mgr., 725 13th St., N. W., authorized \$1,625,753 for extensions to telephone system; extensions include additions to conduits, cables, pole lines, wires, switchboard equipment and telephone stations throughout company's territory; amounts authorized were: For Washington, \$339,135; for Baltimore, Md., \$638,850; for Richmond, Va., \$337,437, and for Charleston, W. Va., \$300,331.

Missouri—Public Service Comsn., Jefferson City, authorized United Telephone Co. to acquire telephone systems in DeKalb and Rushville.

Textile Mills.

Ala., Bridgeport—Aycock Hosiery Mill, South Pittsburg, Tenn., acquired Bridgeport Hosiery Mills; will improve.

Ala., Sylvania—J. E. Sirmine & Co., Engrs., Greenville, S. C., advises improvements to Avondale Mills will consist of extension to Catherine Mill; 1 story, mill construction, daylight type building, 130x214 ft.; additions to Sallie B. Mill will be 5-story warehouse, 75x132 ft.; standard brick walls, c. i. columns, steel beams and wood floors; construction by company's forces. 10-25

Georgia—Goodyear Tire and Rubber Co., Akron, Ohio, with plant at Cedartown, reported, plans establishing plant in Georgia or Alabama.

Ga., Rossville—Peerless Woolen Mills install looms and cards.

Miss., Kosciusko—Aponaug Mills having plans prepared by Robert & Co., Inc., Engrs., Bona Allen Bldg., Atlanta, Ga., for mill unit; 1 story and basement, 53x160 ft., brick walls, conc. foundations; manufacture chambray and print cloth.

N. C., Asheville—B. R. Cooner, 8 Commodore Apartment, considering establishing hosiery mill in this territory. See Want Section—Machinery and Supplies.

N. C., Burlington—J. J. Redyke, 322 Lincoln Ave., Clearwater, Fla., owner of Oxford Silk Yarns Co., Oxford, reported, considering establishment of silk yarn mfg. plant; production 5000 lbs. weekly.

S. C., Batesville—Louis Thomas, 109 W. Park Ave., Greenville, reported, acquired Jenkins Mill, together with 17 employees' houses, 2 warehouses, 40 acres land and water rights.

S. C., Calhoun Falls—Stockholders of Calhoun Mills, vote Nov. 20 on increasing capital to \$2,000,000.

S. C., Goldville—Joanna Cotton Mills will install additional spindles in mill under construction. 8-16

S. C., Greenville—St. John Brothers Co., Inc., 350 Broadway, New York, plans establishing textile fabricating plant; has brick building on south bank of Reedy River; will manufacture own cloth, including dyeing, bleaching and printing processes.

S. C., Greenville—See Miscellaneous Enterprises.

Tenn., South Pittsburg—Aycock Hosiery Mills, constructing plant; W. H. Sears & Co., James Bldg., Chattanooga, Archts.; Ray S. Reiling, South Pittsburg, has contract for brick work and Bridgeport Lumber Co., Bridgeport, Ala., contract for mill work; also installing 60,000 gal. sprinkler tank, Chattanooga Tank and Boiler Co., Chattanooga, Contr. 10-18

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ky., Danville—City votes Nov. 6 on sanitary sewer, storm sewer, water main bonds. See Financial News.

Ky., Somerset—Beecher Smith, Somerset, acquired 20 year franchise for water and light; will construct water and light plant; invites estimates on electrical and water appliances for both plants.

La., Lafayette—City having plans prepared by J. B. McCrary Co., Citizens Savings Bank Bldg., Atlanta, Ga., for filtration plant; \$125,000 bonds available. 10-25

La., Shreveport—Tom Green, Ward Bldg.,

Shreveport, has contract for constructing Old River and Cedar Grove sewage pumping station.

Md., Towson—Commrs. Baltimore County let contract to Metropolitan Contracting Co., 210 Highland Ave., Baltimore, for mains in Millford, Liberty Heights and Hamilton Aves.; cost \$17,648.

Miss., Calhoun City—Hubert A. Forrest, 918 Short St., New Orleans, La., has contract for elevated tank, water mains, etc.; Morgan & Co., Edwards Hotel Bldg., Jackson, Engrs. 10-11

Miss., Meridian—Orr Brothers Welding Co., Meridian, has contract for steel filter tanks at pumping station; city opens bids Nov. 6 for sanitary sewers.

N. C., Charlotte—City plans extension of water system in N. Charlotte to provide fire protection; install 12 and 6 in. lines.

N. C., Goldsboro—City plans water and sewer extension and improvements and white way. See Financial News.

Okla., Mangum—City rejected bids for water softening plant. 9-27

Tenn., Knoxville—Misner Construction Co., 408 State St., has contract at \$7788 for extension to water works, 4500 ft. of 10-in. 1000 ft. of 8-in., 25,000 ft. of 6-in., 1500 ft. of 2-in. pipe.

Tex., Alpine—City voted \$125,000 water and sewer bonds.

Tex., Abilene—City votes Nov. 17 on water works bonds. See Financial News. 10-18

Tex., Brownwood—Brown County Water Improvement Dist. No. 1 votes Dec. 4 on \$2,000,000 bonds for constructing dam and reservoir on Pecan Bayou and Jim Ned Creek. 9-6

Va., Burkeville—City contemplates bond issue for water and sewers; J. B. McCrary Engr. Corp., Citizens Savings Bk. Bldg., Atlanta, Ga., retained to make surveys and supervise installation; H. H. Williams, Dist. Mgr., Hotel Robt. E. Lee, Lexington, Va.

Tex., Follet—City votes in Jan. on \$35,000 water bonds.

Tex., Galveston—City approved contract with John Jacobson, 2311½ C St., for 8-in. water main across the bay to serve industries on Pelican Spit and government coast guard station and quarantine station; cost \$25,000. 10-4

Tex., Granger—City voted \$60,000 water works bonds. 9-27

Tex., Houston—Fantham & Fantham, West Bldg., let contract at \$17,500 to P. F. Ellerm for installing water system in Windermere.

Tex., Jacksonville—City voted \$70,000 water works and sewer expansion bonds. 9-27

Tex., Monahans—City votes Nov. 3 on \$45,000 bonds.

Tex., Uvalde—City votes Nov. 12 on \$125,000 bonds for purchase of water works system and \$75,000 for extending mains and improving system, including 150,000 gal. storage tank and tower.

Va., Fairfax—City retained J. B. McCrary Engineering Corp., Citizens Bank Bldg., Atlanta, Ga., to design and supervise installation of water and sewer system; H. H. Williams, Dist. Mgr., Hotel Robt. E. Lee, Lexington, Va.

Va., Mineral—City contemplates installing water system; J. B. McCrary Engineering Corp., Citizens Savings Bank Bldg., Atlanta, Ga., will design and supervise installation; H. H. Williams, Dist. Mgr., Hotel Robt. E. Lee, Lexington, Va.

Woodworking Plants

Ga., Waycross—J. D. Gibson, Waycross, and John S. Gibson, Douglas, organizing Waycross Veneer Co., erecting mill, Garlington and Ben Hill's Sts., to manufacture market box and crate material.

Mo., Kennett—Fibre Furniture, etc.—Lasswell Mfg. Co., capital \$20,000, incorporated; Gus Lasswell, W. D. Lasswell.

N. C., Elkin—Elkin Table Co., capital \$150,000, incorporated; T. F. McNeill, S. G. Holcomb.

Fla., Perry—Graham-Paige Body Corp. let contract to R. D. Cole Mfg. Co., Newnan, Ga., for 75,000 gal. tank in connection with erection of \$150,000 dimension mill. 10-11

FIRE DAMAGE

Ala., Camden—J. L. Bonner's cotton ginning plant.

Ala. Fort Deposit—C. B. Hawkins' plantation barn.

Ark., Bearden—Jordan-Yeager feed store and cotton warehouse; loss \$30,000.

Ark., Ola—Ola Axhandle Mill Co.'s plant. La., Alexandria—Arena on Lee St., owned by Mike Mule; I. J. Delatin's bakery; loss \$20,000.

La., Cedar Grove, Sta. Shreveport—Weisman Building, 100 block 70th St., occupied by Standard Furniture & Hardware Co., Ross Variety Store, J. R. Taylor Drug Co. and Piggly-Wiggly Store; loss \$20,000 to \$30,000.

Md., Pikesville, Br. Baltimore—Main building of McDonogh School near Pikesville; loss \$300,000 to \$400,000; Thos. H. Fitchett, Sec.-Treas., Bd. of Trustees.

Md., Westminster—Charles Carroll High School of Myers Dist., Carroll County; loss \$80,000; J. Pearre Wants, Pres., School Bd.

Mo., Lebanon—Cheese factory operated by H. O. Smith, Springfield; Sam C. Allen, owner.

Mo., St. Louis—Stanton Curtis' building, 1902 N. High St., occupied by Jennie Jameson.

Mo., St. Louis—American Foundry and Mfg. Co.'s building, Ninth and Wright Sts.

N. C., Fayetteville—Gun shed of Battery C, 17th Field Artillery; loss \$54,000. Address The Commandant.

N. C., Henderson—Kline Bros. Department Store, owned by James R. Young, Raleigh.

S. C., Donalds—Frank Austin's residence.

Tenn., Lebanon—Frank White Motor Co.'s building; loss \$10,000.

Tenn., Memphis—Mrs. S. P. Dellahunt's 2 dwellings, 26-27 Nichols Ave.

Tenn., Nashville—"Elmwood," Davidson County, residence of Frank L. Berry; loss \$50,000.

Tex., Bonham—Clutters' gin; loss \$28,000.

Tex., Forest—John Lackey's residence.

Tex., Giddings—Wilson Hotel, Robinson Hotel. Address The Proprietors.

Tex., Houston—New York Loan Co. offices; Jonathan Cox Phonograph Co. offices.

Tex., Southmayd—Lee's Cafe, G. A. Keeth's store and residence, B. L. Biggers' barber shop, Williams Hotel, Owen Thurmond's cafe; loss \$15,000.

Tex., Whitesboro—Whitesboro Cotton Oil Mill.

Va., Danville—T. J. Elliott's residence, Glenwood, near Danville.

Va., Hamilton—Packing house at High Point Orchard, owned by Miss Julia Hoge.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ark., Bentonville—Independent Order of Odd Fellows plans brick store and lodge bldg.; 2 stories, about 50x117 ft.

Tex., Beaumont—Young Men's Christian Assn., T. N. Whitehurst, Chmn., Bldg. Comm., receives bids Nov. 17 (extended date) for brick, rein. conc., steel and cast stone bldg.; \$400,000; 4 stories; Tisdale, Stone & Pinson, Archts., Ind. Life Bldg., Nashville, Tenn., and Goodhue Bldg., Beaumont; John W. Ogg, Supv. Archt., care Architectural Bureau, Intl. Comm., Y. M. C. A., 347 Madison Ave., New York. 10-18

Tex., Dallas—Young Men's Christian Assn., Edw. T. Moore, Chmn., Bldg. Comm., selected Anton F. Korn, Thomas Bldg., as architect for \$800,000 central bldg., N. Ervay St. near Federal St.; provide special newsboys' quarters, gymnasium, dormitory. 8-16

Tex., Sherman—Supreme Forest Woodmen Circle, Mrs. Mary E. LaRossa, Natl. Pres., Omaha, Neb., receives bids Nov. 12 at office John Tulloch, Archt., Sherman, for administration building for proposed \$500,000 national home for aged and orphans; 2 stories and basement; plans from Archt. 10-18

Bank and Office

Ark., West Memphis—St. Francis Levee Bd., Bridge Junction, Ark., receives bids Nov. 8 for rein. conc., brick and stone office bldg.; \$20,000; 3 stories, 46x77 ft., conc., terrazzo, tile and oak floors, rein. conc. foundation, comp. roof; Estes W. Mann, Archt., Cotton Exch. Bldg., Memphis, Tenn. Address Owner. See Want Section—Building Material and Equipment.

Okla., Ardmore—Exchange National Bank has low bid from G. L. Smoyer for \$30,000 bank bldg.; J. B. White, Archt., 103½ W. Main St.

Okla., Duncan—J. A. Blaydes, Pres., Oklahoma National Bank, and others enlarge 3-story Oklahoma National Bank Bldg.; 5 or 6 stories; Hawk & Parr, Archts., Cotton Exch. Bldg., Oklahoma City.

Okla., Oklahoma City—Packard Motor Co., 820 N. Broadway, considers erecting \$150,000 office bldg.; brick and stone, 6 stories; architect not selected.

Tex., Beaumont—East Texas Title and Guaranty Co., Jas. H. Rachford, Pres., successor to Rachford Abstract Co., 948 Pearl St., erect 2-story building.

Churches

Ala., Troy—First Presbyterian Church erect brick bldg.; stone trim, 1 story, 42x75 ft., wood floors, slate roof; Okel & Cooper, Archts., Bell Bldg.; plans ready about Nov. 5.

Ga., East Point—Colonial Hills Baptist Church, Rev. A. W. Lamar, Pastor, raising funds to remodel building.

Ga., Griffin—First Presbyterian Church erect \$30,000 Sunday school; 1 story and

basement, 60x120 ft., brick, stone trim, conc. foundation, conc. and hardwood floors, comp. roof, steam heat; J. W. Wolcott, Archt., 18 E. Lexington St., Baltimore, Md.; probably soon let contract.

Ky., Louisville—Grace Presbyterian Church erect bldg., Hancock and Roselane Sts.; E. T. Hutchings, Archt., 418 S. 5th St.; G. M. Grimes, 673 S. 43rd St., and E. R. Gregg, 2501 Hale St., Asso. Archts.; Robt. N. Struck, Contr., First and Chester Sts.

La., Algiers, New Orleans—Holy Name of Mary R. C. Church receiving bids from George J. Glover Co., Inc., Whitney Bldg., for brick and terra cotta trim church; \$200,000, Gothic type, 70x177 ft., 70 ft. high, struct. steel frame, pile foundation, rein. conc. work, cast stone, wood floors, copper sheet metal, slate and comp. roof; separate bids by Alex. W. Norman, Archt., Maritime Bldg., for steam blast heating system; separate bids later for marble work, clock and dial, stained glass and steel sash. 10-11

La., Monroe—First Church of Christ, Scientist, selected J. W. Smith & Associates, Ouchita Natl. Bk. Bldg., as architects for \$50,000 brick bldg.; stone trim, rein. conc. foundation, slate roof; plans ready about 60 days.

Mo., St. Louis—Parkview Christian Church, Rev. B. L. Morris, 3936 Fairview Ave., reported, erect \$750,000 church, Sunday school and apartment building, 2801 S. Kingshighway; 10 stories, 100x150 ft., brick and rein. conc., fireproof; Klingensmith, Wilkins, Archts., Louderman Bldg.

N. C., Greensboro—Synodical Conference, Lutheran Church, Rev. C. F. Drewes, Director of Missions, 3407 Halliday St., St. Louis, Mo., has plans by Theo. Steinmeyer, Archt., International Life Bldg., St. Louis, for church and school for negroes, Washington and Benbow Sts.; former \$20,000, brick; latter, \$10,000, frame. 10-4

Okla., Ponca City—Evangelical Church erect \$40,000 bldg.; brick and rein. conc.; Roy W. Shaw, Archt.

Tenn., Johnson City—Lutheran Church, Rev. Claire P. Shultz, Pastor, erect bldg., Lamond and Watauga Sts.

Tex., Dawson—First Methodist Church, F. H. Simpson, member, Bd. of Stewards, raising funds for building.

Tex., Junction—Baptist Church has low bid at \$17,463 from A. P. Rheiner & Son, 305 Wyoming St., for \$15,000 bldg.; Will N. Noonan Co., Archt., Bldrs. Exch. Bldg., both San Antonio. See Want Section—Building Material and Equipment. 10-11

Tex., Port Arthur—First Congregational Church, care Rev. Saml. Holden, Dist. Supt., Beaumont, erect brick building.

Tex., Richmond—First Baptist Church erect \$20,000 building. Address The Pastor.

Va., Suffolk—Boaz Presbyterian Church, Rev. S. K. Emurian, Pastor, has broken ground for church.

W. Va., Fairmont—Mount Zion Baptist

Church, Colored, Cleveland Ave., remodel bldg.; stone and brick veneer; \$10,000.

City and County

Ark., Rogers—City, J. H. Rood, Mayor, votes Nov. 20 on \$40,000 city hall bonds; brick and conc., 2 stories, conc. and wood floors, comp. roof, conc. foundation. 10-11

Fla., Bonifay—Holmes County Bd. of Commrs., R. H. Creel, Clk., has low bid at \$47,000 from T. H. Emerson, Brooksville, for remodeling and addition to courthouse; Biggers & Glass, Archts., 302 Franklin St., Tampa. 9-27

Fla., Stuart—Martin County Bd. of Commrs., Warner B. Tilton, Chmn., in next 2 weeks will set date for receiving bids for courthouse; \$150,000, rein. conc. frame with curtain walls of hollow tile or brick or cement units, 3 stories, about 62x100 ft., rein. conc. foundation, built-up roof; Bert D. Keck, Archt., P. O. Box 1157. See Want Section—Building Material and Equipment. 10-25

Ga., Atlanta—Atlanta Park Commission erect \$15,000 bath house, Maddox Park; stone, stucco, 1 story, conc. floors, tile roof; Edwards & Sayward, Archts., 101 Marietta Bldg.

Ky., Catlettsburg—Boyd County, R. C. Mills, Sheriff, votes Nov. 6 on \$300,000 bonds to erect jail and remodel, change and repair present courthouse and erect extension or addition to courthouse.

La., Baton Rouge—City Comsn. Council erect \$60,000 public library.

La., New Orleans—City Comsn. Council receives bids Nov. 6 (extended date) for stone, tile and face brick stable; 1 story, 75x95 ft., rein. conc. foundation, steel arch, asbestos roof; \$15,000; A. S. Montz, City Archt.; estimators lately noted. 10-18

La., Shreveport—Following contractors estimating on fire station, bids Nov. 13 by City Comsn.: Strubbe McConnell, 3404 Hearne Ave.; Joe Madino; Tom Green, 1200 Dalzell St.; H. & B. Constr. Co., Picou-Brewster Bldg.; J. M. Brown; H. Cleveland, Giddens-Lane Bldg.; Henry E. Schwarz, Archt., Slattery Bldg. 10-25

Okla., Enid—City Council having plans drawn by R. W. Shaw and G. E. Blumenauer, Archts., for 2 brick fire stations; \$53,000.

S. C., Columbia—City Auditorium Comsn. receives bids Dec. 1 for struct. steel frame auditorium-community center building; \$300,000, fireproof, 3 stories and basement, 127x223 ft., rein. conc. foundation and floor constr., cast stone, hollow tile, gypsum block partitions, terrazzo, wood and conc. floors, tar and gravel roof, steam heating, ventilating system; auditorium seat 4000; Lafaye & Lafaye, Archts., 1224 Sumter St. 9-27

Tenn., Knoxville—Knox County Court, S. O. Houston, County Judge, plans bldg. at poor farm, Maloneyville.

Tex., Baird—Callahan County Bd. of Commrs. probably soon let contract for \$125,000 courthouse; bonds sold.

Tex., Fort Worth—Association of Commerce, R. E. Harding, Pres., 1306 Summit Ave., interested in municipal auditorium.

Tex., Jacksonville—City voted \$75,000 city hall bonds. Address City Council. 9-27

W. Va., Point Pleasant—Mason County Bd. of Commrs. considering selling present courthouse and erecting new structure; Levi J. Dean, Archt., Simms-Keller Bldg., Huntington.

Dwellings

Ala., Birmingham—Edw. D. Kerner, care H. D. Breeding, Archt., 110½ N. 21st St., erect brick residence, Milner Heights; 2 stories and basement, clay tile roof, steam heat.

Ala., Anniston—R. P. Wheeler, Sunset Drive, erect stone and stucco residence; 2 stories and basement, steam heat, slate roof; R. Kennon Perry, Archt., 1001 Wynne-Claughton Bldg., Atlanta, Ga.

Ala., Athens—Mrs. M. L. Williams erect brick veneer and conc. residence; 2 stories and basement, 65x46 ft., oak and yellow pine floors, tile bath, hollow tile; Jos. W. Hart, Archt., 316 Jackson Bldg., Nashville, Tenn.

Ala., Birmingham—Geo. Crenshaw, care H. D. Breeding, Archt., 110½ N. 21st St., remodel and enlarge residence, Milner Heights; \$14,000; brick veneer, 2 stories, 42x48 ft., conc. foundation, tile baths, oak floors, tile roof, steam heat.

Fla., Daytona Beach—D. J. Donnelly, 19 Aldie All, Boston, Mass., receives bids Nov. 3 at office Kiehnel & Elliott, Archts., Seybold Bldg., Miami, for hollow tile residence and garage; 2 stories, 117x35 ft., wood and tile floors, tile roof; following contractors esti-

imating: P. J. Davis Construction Co., Calumet Bldg.; Gunn & Goll; John B. Orr Co., Inc., N. E. Sixth St., all Miami; John C. Cuthbert, Avenue Aragon, Coral Gables, Miami; T. K. Appgar, Seabreeze Station, Daytona Beach; John Rogers Construction Co., 508 Bellview Ave.; Grahn Construction Co., 133½ Magnolia Ave., both Daytona Beach. 8-2

Fla., Miami Beach—D. W. Rankin, Kansas City, Mo., and 6950 Jeffry Ave., Chicago, Ill., erect \$25,000 winter residence, 19th St.

Fla., Miami Beach—Geo. W. Tompkins, 134 S. La Salle St., Chicago, Ill., erect \$12,500 residence, Pine Tree Drive near 52d St.

Fla., Ocala—C. F. Cramer and other members of Spanish War Veterans, care F. W. Ditto, 107 S. Main St., Ocala, purchased tract on Lake Weir for colonization project; build town, etc.

Ga., Columbus—Owen Edge, 11½ 12th St., erect 2 dwellings, Edgewood; 6 rooms, interlocking hollow tile, stucco, hardwood floors; John C. Martin, Jr., Tate Drive, Archt.

Ga., Columbus—I. D. Lupo, 500 Fifth Ave., Girade, erect brick residence, Weracova Heights; 5 rooms, hardwood floors, tile baths, asbestos shingle roof; John C. Martin, Jr., Tate Drive, Archt.

La., New Orleans—Rev. Jas. Dousin erect double residence, Robinson St. near Gordon St.; 24x43 ft., asbestos roof.

La., New Orleans—Robt. Ewing, Jr., 6020 St. Charles St., erect stone veneer bungalow, S. Claiborne Ave., near Versailles Blvd.; 1 story, tile roof, tile baths, oak floors; Andry & Feitel, Archts., N. O. Bank Bldg.; bids Nov. 2.

La., New Orleans—L. Pumilia, 425 Balter Bldg., erect 3 double dwellings, Peniston St. near Coliseum St.; 24x66 ft., slate roofs; \$10,000.

La., New Orleans—Weiss, Dreyfous & Seifert, Archts., Maison Blanche Bldg., drew plans for \$10,000 dwelling, Miro St. near Cleveland St.; 2 stories, 33x59 ft., tile roof.

La., Shreveport—W. L. Trimble, 610 Herndon Ave., erect \$40,000 residence, Wilkinson St. and Fairfield Ave.; brick, 2 stories, tile roof, warm air heat; Edw. F. Neild, Archt., City Bk. Bldg.; bids in.

Md., Baltimore—Clara Buselmeier plans English type bungalow, Old Orchard Rd., Ten Hills.

Md., Baltimore—Geo. W. Miller, 905 N. Bentalon St., erect 2 frame dwellings, S. side Old Harford Rd. near Alvarado Ave.; 1½ stories, 24x44 ft., steam heat; \$10,000; plans and constr. by owner.

Md., Baltimore—W. Keyser Manly, 1205 N. Calvert St., erect residence, Churchwardens Rd., Homeland; work start in Spring.

Md., Baltimore—Henry W. H. Pierson, 1000 Olive St., erect Colonial brick residence, Pinehurst Rd. near Glittings Ave., Pinehurst; 8 rooms, 2 baths.

Miss., Meridian—Mrs. J. D. Waddell, 3602 12th St., rejected bids for brick veneer residence; 1 story, slate roof; P. J. Krouse, Archt., M. & W. Bldg. 9-20

Miss., Philadelphia—R. C. Peebles erect brick veneer residence; R. C. Springer, Archt., Rosenbaum Bldg., Meridian; bids Oct. 28.

Mo., Clayton, St. Louis—Dr. J. B. Costen, 3720 Washington St., plans brick residence, Dromara Place; A. C. Maack, Archt., 715 Westgate St., University City.

Mo., Kansas City—Dr. Homer A. Beal, 1002 Argyle Bldg., purchased homesite, 830 W. 65th St., Hampstead Gardens.

Mo., Kansas City—Wm. A. Ong, 6410 Wyandotte St., Sales Mgr., Beacon Airways of America, Inc., purchased homesite, 618 W. 67th St., Armour Fields.

Mo., Webster Groves, St. Louis—E. Stockton, care Chas. L. Thurston, 111 W. Lockwood St., erect brick residence, Park Drive, Webster Park; 2 stories and basement, 42x30 ft., hardwood floors, tile bath, comp. roof; bids in.

Okla., Oklahoma City—Miller & Ennen erect 2 brick dwellings, 2764-2844 W. 22nd St.; \$10,000.

Okla., Oklahoma City—A. C. Parker, 335 E. 36th St., South, erect 3 brick dwellings, 3345 W. 17th St., 1201 Euclid Ave. and 2343 W. Park Place; \$13,000.

Okla., Oklahoma City—J. A. Miller, 1317 East 16 St., started work on 2 brick dwellings; Creston Hills; \$13,500.

Okla., Oklahoma City—A. L. Grant erect 2 brick dwellings, 2828-32 W. 21st St.; \$10,000.

Okla., Oklahoma City—I. L. Snodgrass erect 2 brick dwellings, 2124-25 W. 22nd St.; \$10,000.

Okla., Pawhuska—Agnes Wagoshe, care Osage Indian Agency, erect brick veneer resi-

dence, garage, servants' quarters and summer house near Pawhuska; 2 stories; H. D. Joll, Archt.

Okla., Ponca City—Roy Williams, 508 W. Brady St., Tulsa, erect \$15,000 residence; Leonard Bailey, Archt., Oklahoma City.

Okla., Shawnee—J. E. Douglas erect \$12,500 residence; brick, 2 stories, 41x28 ft.; A. C. Davis & Sons, Archts.

Tenn., Chattanooga—T. L. Clary erect \$30,000 residence, Crest Rd., Missionary Ridge.

Tenn., Dyersburg—Dyersburg Industrial Assn., erect 100 dwellings for operatives of Dyersburg Cotton Products Co.; financing arranged with R. W. Spraggins & Co., Jackson.

Tenn., Knoxville—J. W. Dean, 1719 Lake Ave., erect English type residence; 2 stories and basement; Barber & McMurtry, Archts., Tenn. Gen'l Bldg.

Tenn., Memphis—Herman Crouch, Puryear, erect \$18,000 residence, Iroquois Road; brick veneer, stone trim, 2 stories and basement, oak floors, tile roof, steam heat, garage and servants' quarters; D. L. Crouch, Archt., 63 S. Third St.

Tenn., Memphis—L. D. Powell, 1177 Tanglewood Ave., erect \$11,000 residence, 600 Center Drive; brick veneer, 2 stories, garage.

Tenn., Nashville—A. L. Stewart, care Welby N. Pugin, Archt., 149 N. Sixth Ave., erect brick veneer and conc. residence; 1 story and basement, 34x42 ft.; bids Nov. 1.

Tex., Beaumont—C. Rhader erect \$11,000 residence, Cartright Terrace addition; 9 rooms.

Tex., El Paso—Alderman R. E. McKee erect \$15,000 Spanish type bungalow, Richmond and Elm Sts.; 3 baths; O. H. Thorman, Archt., First Nat'l Bk. Bldg.

Tex., Gonzales—G. E. Bradley, County Supt., erect 5-room residence, N. Hamilton St.; Lee Looney, Contr.

Tex., Goose Creek—G. R. Herring erect brick veneer residence; 2 stories, 8 rooms; Chas. P. Jones Co., Archt., Binz Bldg., Houston.

Tex., Houston—Geo. D. Wilson, 1906 Wheeler, erect 50 frame dwellings, Cloverdale Addition; 8 rooms; \$175,000.

Tex., Houston—W. T. Helberg, 1102 21st St., erect brick veneer residence, Rosedale, Riverside Terrace; 2 stories; Lamar Q. Cato, Archt., Bankers Mtg. Bldg., drawing plans.

Tex., Houston—J. S. Sondock, 1505 St. Emanuel, erect brick veneer residence, Blodgett and Jackson Sts.; 2 stories, 9 rooms; Brickey, Wiggins & Brickey, Archts.; bids in.

Tex., Houston—Dr. Thos. G. Hill, 5201 Harrisburg Blvd., erect residence, Palm and Burkett Sts., Southwood.

Tex., Mercedes—H. H. Roddy erect \$16,000 residence; hollow tile and stucco, 2 stories, 8 rooms, conc. foundation, hardwood and tile floors, tile roof; Birger A. Elwing, Archt., Harlingen.

Tex., Odem—D. A. Cornett erect residence.

Tex., Ozona—A. C. Hoover receives bids Nov. 6 for brick and tile residence; 2 stories and basement, 40x60 ft., oak floors; Will N. Noonan Co., Archt., Bldrs. Exch. Bldg.; Homer Mathews, Engr., Bedell Bldg., both San Antonio. 10-25

Tex., San Antonio—Dan Sullivan, III, 128 E. Woodland St., erect rein. conc., hollow tile and brick residence, Bushnell Place; 2 stories, wood floors, rein. conc. foundation, tile roof; Harvey P. Smith, Archt.; W. E. Simpson & Co., Engrs., both Nat'l Bk. of Commerce Bldg. 10-25

Va., Richmond—Ellett-St. Catherine's Alumnae Assn. erect residence for Miss Virginia Randolph Ellett; ground broken.

Government and State

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., selected architects as follows for proposed buildings: Department of Labor, Arthur Brown, Jr., San Francisco, Calif.; Interstate Commerce, Arthur Brown, Jr.; Independent Establishments, Delano & Aldrich, 126 E. 38th St., New York, and Department of Justice, Zant-zinger, Borie & Medary, Otis Bldg., Philadelphia, Pa.; Edw. H. Bennett, 30 E. Jackson Blvd., Chicago, Ill., const. archt. for Government's \$50,000,000 building program. 10-11

La., Bogalusa—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., probably soon call for bids for post office; \$135,000 appropriated.

Miss., Cornith—Following contractors estimating on extension and rehabilitation of post office, bids Nov. 16 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., 5506 13th St., N. W., Washington, D. C.; Charles Weitz' Sons, 713 Mulberry St., Des Moines,

Iowa; Algernon Blair, 11 S. Lawrence St., A. C. Samford, Sheppard Bldg., both Montgomery, Ala.; F. J. Ozanne & Co., 310 Empire Bldg., Memphis Tenn.; Fred R. Comb Co., 2113 Chicago Ave., Minneapolis, Minn.; H. A. Sylvester, care Smythe Co., Post Office, Lexington, Ky. 10-18

Va., Fort Myer—War Dept., Washington, D. C., approved construction of hostess house, Fort Myer; brick, 2 stories; Maj.-Gen. Fred Siaden, Comdr., Third Corps Area.

Hospitals, Sanitariums, Etc.

Ala., Tuscaloosa—Alabama Hospital for Insane, Gov. Bibb Graves, Montgomery, member, Bd. of Trustees, may erect additional quarters.

D. C., Washington—District Commrs., Room 509 Dist. Bldg., receive bids Oct. 31 for remodeling power plant, Gallinger Municipal Hospital; plans from Room 427.

La., New Orleans—Charity Hospital of Louisiana, Fredk. W. Matthews, Sec.-Treas., having plans drawn by Favrot & Livaudais, Ltd., Archts., Hibernia Bldg., for \$150,000 addition to nurses' home and \$110,000 boiler room bldg., Gravier St.; rein. conc. and brick, fireproof. 8-30

Miss., Gulfport—Additional contractors estimating on officers' quarters, U. S. Veterans' Hospital, bids Nov. 8 by U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C.; Monroe Electric Co., Inc., 1107 Highland Ave., Tampa, Fla.; John Douglas Co., Union Trust Bldg.; Standard Sanitary Manufacturing Co., Willard Hotel, both Washington, M. J. O'Neill, St. Paul, Minn.; O. P. Woodcock Co., Lutz Bldg., Jacksonville, Florida. 10-25

Miss., Sanatorium—Mississippi Building Comsn., State Capitol, Jackson, receives new bids Nov. 22 for preventorium, recreation building, apartment, 3 dwellings, alterations to certain buildings, steam tunnels, farm buildings, water tank, garbage destroyer, power line, etc., State Tuberculosis Sanatorium; \$330,000; separate bids for heating, plumbing, swimming pool, elect. work, sprinkler system, parkway lights, landscaping and insect screens; plans from Bem Price, Archt., Comer Bldg., Birmingham, Ala.; following contractors estimating: I. C. Garber; B. E. Walker Construction Co., 813 Glenmary St.; W. J. McGee & Son, Lamar Bldg.; Estes & Reed, all Jackson; Beckelheimer & Small; Oden & Glenn, both Hattiesburg; L. W. Hancock Construction Co., A St. and 26th Ave., Meridian, Miss.; J. F. Holley Construction Co., 817 Nineteenth St.; C. S. Kershaw Contracting Co., Woodward Bldg., both Birmingham; W. S. Rutter, Brookhaven, Miss.; Currie & Corley, Raleigh and Jackson, Miss. 10-11

Mo., Jefferson Barracks, St. Louis—Constructing Quartermaster rebuild burned hospital, Jefferson Barracks; \$85,000; 2 stories, brick; bids in.

Mo., Lebanon—Laclede County votes Nov. 6 on proposition to erect infirmary; cost about \$25,000. Address County Commrs.

Mo., St. Louis—Jewish Hospital, 216 S. Kings Highway, advises architect not yet selected for Waldheim Health Clinic; Graham, Anderson, Probst & White lately noted as architects; 5 stories, 60x156 ft. 10-25

S. C., Anderson—St. Marys Hospital, Dr. C. S. Breedin, erect fireproof addition; brick, conc. footings; Jas. J. Baldwin, Archt., Taylor Bldg., Asheville.

S. C., Greenville—Greenville County receives bids Nov. 15 for tuberculosis sanatorium; 5 bldgs.; fireproof, rein. conc. and struct. steel, brick, stone trim, comp. roof, linoleum and terrazzo floors, steam heat, 75 beds; Beacham & LeGrand, Archts., 17-A North St. 8-9

Tenn., Nashville—Davidson County Tuberculosis Hospital Bd. of Managers, Dr. A. G. Nichol, Sec., receives bids Nov. 15 at office Judge Litton Hickman, County Courthouse, for infirmary bldg., Hamilton Rd.; separate bids for plumbing, heating and elevator equipment; plans from Asmus & Clark, Archts., Nashville Tr. Bldg.

Va., Roanoke—Salvation Army Hospital for Women and Children, Col. Stillwell Cox, Supt., considers erecting new hospital.

Hotels and Apartments

Ala., Birmingham—Robt. T. Harris, 1531 S. 21st Way, erect 3-story brick apartment, S. 21st St. and 17th Ave.; H. D. Breeding, Archt., 110½ N. 21st St.

D. C., Washington—G. T. Santmeyer, 917 15th St., N. W., preparing plans for \$200,000, 5-story, brick, 44-apartment.

Fla., Miami Beach—N. B. T. Roney, 2250 Collins Ave., erect 1-story, 160x25 ft. addition and remodel Roney Plaza Hotel; hollow

tile walls, comp. roof, cement and Zenithern floors; Robt. A. Taylor, Archt., 325 Espanola Way.

Fla., Miami Beach—E. M. Bullock erect \$60,000, 12-unit apartment, Lummus Park, between 12th and 13th Sts., in Ocean Drive.

Fla., Miami Beach—Samuel Johnston, Utica, N. Y., erect \$45,000, 8-unit apartment, Drexel Ave. and 12th St.

Fla., Palm Beach—Whitehall Building and Operating Co., W. J. Moore, Pres., American Bond and Mortgage Co., 127 N. Dearborn St., Chicago, and 345 Madison Ave., New York, and others expend \$90,000 for reconditioning Whitehall Hotel, recently damaged by hurricane; Walter Richardson, Trustee.

La., New Orleans—E. A. Maehr, 435 Carondelet St., plans 4-apartment, Fontainebleau Drive and Vincennes Place; also 1-story and basement residence, same address.

Miss., Hattiesburg—Forrest Hotel Co., R. B. McLeod, Pres., receives bids Nov. 15 for \$500,000, 9-story and basement, fireproof, brick and terra cotta, 135-room hotel, Forrest and W. Pine St.; Geo. D. Barnett, Inc., Archt., Syndicate Trust Bldg., St. Louis; E. C. Hearon & Son, Asso. Archts., 201 W. Pine St.; following contractors estimating: General—O. M. Gwin Construction Co., Union Indemnity Bldg., New Orleans; B. E. Bufaloe Construction Co., 658 East St., Memphis; Massengale & McIntosh, Hattiesburg; C. G. Kershaw Contracting Co., Woodward Bldg., Birmingham; W. J. McGee & Son, Lamar Bldg., Jackson; Beckelheimer & Small, Hattiesburg; Gauger Kormo Construction Co., Fidelity Bldg., Memphis; L. W. Hancock Construction Co., Meridian; Estes & Reed Construction Co., Millsaps Bldg., Jackson; Algernon Blair, 11 S. Lawrence St., Montgomery, Ala.; McArthur & McLemore, Meridian; Seaboard & Southern Construction Co., Hildebrandt Bl., Jacksonville, Fla.; W. G. Wetmore Construction Co., Jackson; W. W. Wessell Construction Co., 388 N. Front St., Memphis; Gerhardt Construction Co., Cape Girardeau, Mo.; plumbing, heating, refrigerating—American Heating and Plumbing Co., Inc., 829 Baronne St., New Orleans; Fischer Heating Co., 367 Adams St., Memphis; Hub Plumbing Co., Hattiesburg; Seabrook & Masino, 636 N. Broad St., New Orleans; Paine Heating Co., Jackson; J. W. Hull Plumbing and Heating Co., 1144 Madison St., Memphis; Hamilton Bros. Co., Gulfport; Robinson Bros., Pine Bluff, Ark.; A. G. Rose, New Orleans; Fisher-Butler Co., Jackson; electrical wiring—Standard Electric Co., Gulfport; Central Electric Co., Hattiesburg; Koenen Electric Co., 125 S. State St., Jackson; Dennison-Loepker Electric Co., Syndicate Tr. Bldg., St. Louis; Jake M. Fried Electric Co., Vicksburg; Dalton Electric Co., Meridian; Century Electric Co., Medical Bldg., Jackson. 10-25

Miss., Meridian—N. A. Sundholm, 2025 Young St., Memphis, Tenn., having plans prepared by W. C. Lester, Dermon Bldg., Memphis, for 2-story, 100x100-ft., brick veneer, stone trim 16-apartment; tile and comp. roof, oak floors, built-in features.

Mo., Carthage—National Building Co., L. Kranitz, Pres., Waldheim Bldg., Kansas City, plans 3-story brick apartments at Carthage, Columbia, Jefferson City and Springfield.

Mo., Columbia—See Mo., Carthage.

Mo., Jefferson City—See Mo., Carthage.

Mo., Marshall—Monte Steel soon let contract for 2-story, brick, 12-apartment, Eastwood St.

Mo., Springfield—See Mo., Carthage.

Mo., St. Louis—Sovereign Building & Investment Co., A. A. Spell, Pres., erect \$1,500,000, 18-story apartment, Lindell Blvd. between Taylor and Euclid Aves.; 200 units, 2-story garage, with 150-car capacity; N. C. Sinley and Norman B. Howard, Archts., International Life Bldg.; Cytron Mortgage Co., 110 N. Ninth St., financing.

Mo., Van Buren—Rose Cliff Hotel, Dr. I. R. Davis, soon ready for bids for \$35,000, 3-story brick and stucco hotel; Heckenlively & Marks, Archts., Landers Bldg., Springfield.

Tenn., Elizabethton—G. & M. Building Corp. erect \$10,000, 12-room apartment.

Tenn., Knoxville—O. W. Sweat, 218 Emoriland Blvd., has plans by M. E. Parmelee for \$30,000, brick, 15-apartment, 2310 Broadway. 10-11

Tenn., Knoxville—J. B. Reed, Journal Arcade, erect \$25,000, 2-story, brick, 4-apartment, 24 Park Ave. Park City.

Tex., Houston—T. L. Waugh having plans prepared by Curtis & Thomas, Post Dispatch Bldg., for two brick and stone veneer apartments, Waugh Drive and W. Gray St.; \$25,000.

Tex., Houston—Curtis & Thomas, Archts.,

Post Dispatch Bldg., preparing plans for 2-story brick veneer apartment on Southmore St.

Tex., Lampasas—T. E. Smith, Temple, erect \$120,000, 5-story, steel, conc. and brick, fireproof, 52-room hotel.

Tex., Lockney—Lockney Hotel Co. plans to call for bids about Nov. 15 for \$50,000 brick hotel; 30 guest rooms, 7 shops. 10-4

Tex., Plainview—A. G. Hinn, J. H. Massie and associates, Ware Hotel, receive bids Nov. 5 for 9-story and roof garden, brick, stone, tile and rein. conc., 200-room hotel and store, Eighth and Broadway; Wyatt C. Hedrick, Inc., Archt., First Natl. Bank Bldg., Fort Worth. 10-25

Tex., Fort Worth—Mrs. J. J. Tripp has permit for \$10,000 brick veneer apartment, 2831 Avenue G.

Tex., New Braunfels—New Braunfels Hotel Co., Inc., B. W. Nuhn, Sec.-Treas., First Natl. Bk. Bldg., receives bids Nov. 8 for \$100,000, 4-story, rein. conc. and brick, 51-room hotel; plans from Harvey P. Smith, Archt.; W. E. Simpson & Co., Const. Engr., both Natl. Bk. of Commerce Bldg., San Antonio. 8-16

Va., Petersburg—Fred P. Fox, 793 Broadway, and associates, New York, erect \$200,000, 3-story and roof garden, fireproof apartment, Fillmore and Jefferson Sts.

Va., Roanoke—C. L. Rowland, 1616 Patterson Ave., S. W., and W. A. Ingram, Mountain Tr. Bldg., plan \$65,000, 2-story, brick apartment, 202 Elm Ave.

Miscellaneous

Ala., Montgomery—Standard Country Club having plans prepared by Frank Lockwood, 119 Adams St., for \$100,000 English type clubhouse.

D. C., Washington—German Government, Frederick Wilhelm von Pritwitz and Gaffron, Ambassador, 1439 Massachusetts Ave., does not contemplate embassy building at this time. 10-18

Ga., Atlanta—Home for Friendless, Mrs. D. L. Harris, Pres., 881 Piedmont Ave., N. E., having plans prepared by G. Lloyd Preacher & Co., Inc., Wynne-Claughton Bldg., for \$50,000 administration building, \$25,000 boys' dormitory and \$25,000 girls' dormitory; brick, comp. roof, steam heat.

Ga., Atlanta—Partridge Cafe, 96 Alabama St., W., leased 3-story building, 90 Alabama St., S. W.; will remodel.

Md., Rockville—Harper Country Club, R. N. Harper, Pres., 1123 Investment Bldg., Washington, D. C., soon call for bids for \$100,000, 1-story, stone clubhouse, Rockville Pike; A. I. Aubinoe, Archt., 2727 Broadway St., N. W., Washington.

Md., Towson, Br. Baltimore—Bd. of Managers, Presbyterian Home of Maryland for Aged Men and Women, has plans by W. Gordon Beecher, Dutton Ave., for \$50,000, 2-story, fireproof addition to residence; 35 rooms, baths and sun parlors.

Miss., Bay St. Louis—Development Service Corp., Inc., Stephen N. Bobo, Pres., subsidiary of Bowman Management Corp., Inc., Francis McCue, Jr., 355 E. 149th St., New York, has taken over Pine Hills Club and will expend several hundred thousand dollars for improvements; development plans include construction airplane landing field with hydroplane facilities, additional 18-hole golf courses, polo field, stables and paddock.

Miss., Greenwood—Greenwood Country Club rebuild locker rooms and bathhouse recently destroyed by fire; 138 lockers, wading pool for children.

Mo., Dora—Rainbow Springs Resort & Fisheries, care W. W. Strickler, 208 Broadway, St. Louis, reported, planning summer resort; Russell & Axon, Engrs., McDaniel Bldg., Springfield, and Ry. Exchange Bldg., St. Louis; Ferrand & Fitch, Archts., 6188 Delmar Bldg., St. Louis.

Tenn., Lea Springs—Dwight R. Meigs, General Bldg., and associates, Knoxville, develop Lea Lakes in Grainger County, 17 mi. from Knoxville, for mountain resort community; renovate present lodge; approx. 200 acres have been subdivided for cottage sites; 9-hole golf course laid out and swimming pool and bath house will be built near lodge; provide tennis courts, dancing pavilion; commercial area has been designated to include stores, filling station, garage, postoffice and restaurant facilities.

Tex., Dallas—Texas State Fair Assn., Harry Olmsted, Pres., considering \$250,000 building program to include \$50,000 addition to agricultural building, \$100,000 manufacturers building and \$10,000 boys' and girls' educational encampment building.

Tex., San Antonio—Protestant Orphans' Home Bd. of Directors, Mrs. J. L. Browne,

having plans prepared by Phelps & Dewees, Gunter Bldg., for 1-story, brick, fireproof isolation ward building. 10-25

Va., Fredericksburg—George Washington Foundation, Julian C. Hammack, Pres., Munsey Bldg.; A. Stedman Hills, Sec., Washington, D. C., plans restoration and preservation of boyhood home of George Washington in Stafford County near Fredericksburg.

Schools

Ala., University—University of Alabama, Dr. James J. Doster, Chmn. University Athletic Council, erect concrete stadium; first unit to seat 12,000 to 15,000; ultimately designed to seat 60,000 people; contracts will be awarded through Atwood & Nash, Archts., Chapel Hill, N. C., in charge of construction.

Ark., Little Rock—North Little Rock Special School Dist., W. H. Phipps, Sec., rejected bids \$500,000, 4-story and basement, brick, conc. and stone trim high school; have plans revised and soon call for new bids; George R. Mann, Wanger & King, Archts., New Danaghey Bldg. 9-27

D. C., Brookland, Ind. Sta. Washington—De La Salle College for Christian Brothers receives bids Nov. 8 for \$500,000, 3-story and basement College and Seminary building; The M. A. Long Co., Albee Bldg., Washington, and Long Bldg., Baltimore, estimating. 7-26 and 10-25

D. C., Washington—Dist. Commrs., Room 500, District Bldg., call for bids in two weeks for \$250,000, 10-classroom, gymnasium and lunchroom addition to Francis Junior High School, 24th and N Sts. N. W.; A. L. Harris, Municipal Archt. 10-25

Ga., Atlanta—Following contractors estimating on additions to Slaton, Highland Ave., Home Park, Peoples St. and Ragsdale schools to cost \$250,000, bids Nov. 22: Grahn Construction Co., National Construction Co., W. P. Francis, 201 Luckie St., N. W.; Yost Construction Co., C. H. Landrum, Collins, Holdbrook, Collins, Palmer Company, Smith & Williams, Red Rock Bldg.; Pittman Construction Co., The Flagler Co., Red Rock Bldg.; J. S. McCauley Co., Bona Allen Bldg.; J. F. Higdon, Silvey Bldg.; mechanical, Whitmore Electric Co., Loftis Plumbing and Heating Co., Marietta St., N. W.; brick veneer, stone trim, tar and gravel roofs, conc. and wood floors, fireproof corridors; G. Lloyd Preacher & Co., Inc., Archts.-Engrs., Wayne Claughton Bldg. 10-11

Ga., Cochran—Cary Consolidated School Dist. voted \$15,000 bonds for 8-classroom and auditorium school. Address Beckley County School Bd.

Ga., Macon—Sigma Nu Fraternity, Mercer University, J. Alfred Curry, Dublin, Pres., erect \$25,000 building; Cecil C. Hays, Archt., 305 Church St.

Ga., McRae—McRae-Helena School Dist. Trustees erect \$65,000 school; bonds sold. 6-28

Ky., Shelbyville—Shelby Graded School Dist. votes Nov. 20 on \$150,000 bonds for acquiring and enlarging sites for schools and erecting, improving, remodeling and restoring school buildings; C. P. Hall, Mayor of Shelbyville.

La., Benton—Bossier Parish School Bd. rejected bids and call for new bids Nov. 20 for \$30,000, 2-story, brick, 6-classroom and auditorium addition to school; stone trim, Barrett roof, wood floors; plans from Edw. F. Neild, Archt., City Bk. Bldg., Shreveport. 9-13

La., Calvin—Calvin School Dist. votes Nov. 27 on \$55,000 bonds for brick high school.

La., New Orleans—Tygart School Dist. plans \$100,000 bonds to erect high and junior high school and improvement to other schools. Address Orleans Parish School Bd.

Md., Baltimore—Public Improvement Comm., H. J. Leimbach, Ch. Engr., Municipal Office Bldg., have plans completed in December for \$175,000 Brehm's Lane School; 2 and 3 stories, 200x62 ft., brick and limestone or cast stone exterior, fireproof, slate roof; John M. MacKenzie and John K. Cross, Archts., 5 N. Guilford Ave.; J. Posey, Mech. Engr., 201 W. Franklin St.; Van Rensselaer Saxe, Struc. Engr., Knickerbocker Bldg. 8-9

Md., Mechanicsville—St. Mary's County School Bd., G. W. Joy, Supt., Courthouse, Leonardtown, erect \$30,000, 2-story, brick high school; R. L. Harris, Archt., 3432 University Place, Baltimore.

Md., Pikesville, Br. Baltimore—McDonough School, Bd. of Trustees, Thos. H. Fitchett, Sec. Treas., rebuild main building destroyed by fire at loss \$300,000 to \$400,000.

Md., Salisbury—Wicomico County votes Nov. 6 on \$500,000 bonds for high schools in Salisbury, Pittsville and Hebron and colored school in Salisbury. Address Bd. of Education.

Miss., Oxford—Mississippi State Building Comsn., W. C. Trotter, Sec., Jackson, soon call for bids for 2-story and basement, rein. conc., brick and stone trim, cafeteria and 1-story, rein. conc. brick pump house at University of Mississippi; tile roofs, stone trim exterior, tile and wood floors; Frank P. Gates Co., Archt., Edwards Hotel Bldg., Jackson.

Mo., Columbia—Sigma Alpha Epsilon Fraternity, J. Hoffman, University of Missouri, soon let contract to remodel 3-story building for frat house; F. Wallace, Archt., 618 Rialto Bldg., Kansas City.

Mo., Marshall—Missouri Valley College, Dr. Geo. H. Mack, Pres., having plans prepared by Owen, Saylor & Payson, 505 Interstate Bldg., Kansas City, for \$100,000 dormitory, gift of Wm. B. Young, Kansas City. 6-7

Mo., St. Louis—Washington University, Fred Armstrong, Jr., Member, Stadium Comm., has plans by Jamelson & Spearl, Arcade Bldg., for \$750,000 stadium; initial unit to cost \$450,000 and seat 30,000 people to be built at present.

Mo., St. Louis—Mary Institute, Lake and Waterman Aves., controlled by Washington University, Geo. R. Throop, Chancellor, having plans prepared by Study & Farrar, 1363 Arcade Bldg., for brick and rein. conc. school; Warson and Ladue roads, St. Louis County; \$500,000; plans ready for bids in 2 months.

N. C., Charlotte—City considering bond issue approximately \$3,000,000 for school building program to include \$150,000 addition to Alexander Graham Jr. High School; \$150,000 addition to Piedmont Jr. High School; \$200,000 addition to Central High School; \$50,000 administration annex at Central High School; \$250,000 building for Myers St. School and other projects; H. P. Harding, Supt. of Schools.

N. C., Durham—Bd. of Education, M. B. Fowler, Mgr., having plans prepared by R. R. Markley for \$40,000 to \$50,000 school in Lyon Park Dist. for negroes; also having plans prepared by Watts Carr, associated with Northrup & O'Brien, Starbuck Bldg., Winston-Salem, for \$65,000 to \$75,000 school in North Durham; plan to call for bids about Nov. 15. 9-13

N. C., Greensboro—Immanuel Lutheran College soon call for bids for \$75,000 classroom building; Theodore Steinmeyer, Archt., International Life Bldg., St. Louis.

N. C., Penland—Appalachian School erect \$20,000 building.

Tenn., Knoxville—School Bd. expend \$93,755 for repairs to various schools.

Tex., Abilene—Abilene Christian College receives bids Nov. 5 for 3-story, 50x170 ft., brick, tile, rein. conc., stone trim boys' and girls' dormitories; wood, tile and terrazzo floors; Nichol & Campbell, Archts., Radford Bldg.

Tex., Beaumont—Bd. of Education receives bids Nov. 14 for \$900,000, 328x164-ft. 3-story, brick, 45-classroom high school in Oaks addition; Greek architecture, wood floors, refrigeration plant, auditorium to seat 1750 people, cafeteria to accommodate 500 in addition to faculty dining room; plans from F. W. & D. E. Steinman, Archts., San Jacinto Life Bldg.; Harry D. Payne, Const. Archt., Kirby Bldg., Houston. 10-25

Tex., Bryan—Bd. of Education selected Giesecke & Harris, 207 W. Seventh St., Austin, to prepare plans for \$75,000, 2-story, brick and conc. school; 12 rooms, gymnasium and assembly hall, built-up roof. 10-4

Tex., Dallas—Texas Delta Chapter of Phi Delta Theta Fraternity, Southern Methodist University, erect \$20,000, 3-story, brick chapter house.

Tex., Freeport—Freeport School Dist. voted \$100,000 for high school. 8-23

Tex., Houston—Bd. of Education, H. L. Mills, Bus. Mgr., having plans prepared by Lamar Q. Cato, Bankers Mortgage Bldg., for hollow tile, brick, stone trim 2-classroom addition to Charles Elliott elementary school in Harbor addition; having plans prepared by Sanford & Nunn for 2-story, brick, hollow tile, stone trim, addition to Jones elementary school, 914 Elysian St.

Tex., Madisonville—Madisonville Ind.

School Dist. Trustees ready for bids about Nov. 18 for \$60,000, 1 and 2-story, brick and frame high school; wood and linoleum floors, built-up roof; Giesecke & Harris, Archts., 207 W. 7th St., Austin, and Houston. See Want Section—Building Material and Equipment. 9-27

Tex., Port Neches—Port Neches Common School Dist. votes Nov. 24 on \$50,000 bonds for \$30,000, conc. and brick school in Groves addition and improvements to present schools; Livesay & Weldemann, Archts., San Jacinto Life Bldg., Beaumont. 10-18

Tex., San Antonio—City plans vote on about \$2,000,000 school bonds; Marshall Johnston, Supt. of Public Schools.

Tex., Waco—Baylor University, Dr. S. P. Brooks, Pres., have plans ready about Dec. 20 for \$350,000, 4-story, brick, stone, rein. conc. fireproof dormitory; Birch D. Easterbrook, Archt., 614 Liberty Bk. Bldg., Waco; Harry L. Spicer, Struc. Engr., Amicable Bldg. 10-25

Tex., Waco—School Bd., B. B. Cobb, Sec., receives bids Nov. 7 for 3-story and basement, 78x34 ft., 2-wing addition to Senior High School and 98x52 ft. addition to West Ave. Jr. High School; plans from T. Brooks Pearson, Archt., 501 First State Bk. Bldg. 9-27

W. Va., Charleston—School Bd., S. E. Weber, Supt., erect 16-room grade school on Orange St., Glenwood Heights; Warne, Tucker, Silling & Hutchinson, Archts., Masonic Temple. 10-18

Stores

Fla., Tampa—Schulte-United, Inc., 485 Fifth Ave., New York, purchased Stovall-Nelson Bldg. and expend \$15,000 for improvements and refinishing.

Ga., Atlanta—Singer Sewing Machine Co., W. H. Clough, Real Estate Dept., Singer Bldg., New York, having plans prepared by Hentz, Adler & Schutze, Candler Bldg., for 3-story building on Peachtree and Ivy Sts. 10-25

Ga., Atlanta—O. T. Hennessee, 683 Juniper St., N. E., erect additional story and remodel store on Hunter St.

Miss., Blue Mountain—Geo. T. Callicutt, Mayor, erect brick store on Main St.

Miss., Natchez—Joseph Dixon, 700 N. Rankin St., and Joseph Kellogg remodel and renovate store to be leased to Montgomery Ward & Co., Chicago.

N. C., Greensboro—Lakeshore Land Co. has permit for \$10,000, 1-story, brick store on Bellemead St.

Tex., Brownsville—Brown White, San Benito, erect \$20,000, brick and rein. conc., stone trim store; Wm. D. Van Sclen, Archt.

Tex., Dallas—Mrs. Lillian Reville has permit for \$12,000, 1-story, brick building, 2602 Main St.

Tex., San Antonio—Kirkwood & Wharton, 456 Main Ave., erect fireproof store and show room, 600 block N. Flores St.; Robert B. Kelly, Archt., Milam Bldg.

Tex., San Antonio—Lawrence & McFarland, care Adams & Adams, Archts., Real Estate Bldg., have low bid at \$23,908 from W. C. Thrallkill, Real Estate Bldg., for 1-story, 109x125-ft. brick and rein. conc. 4-store, Fredericksburg road and W. Russell St.

Theaters

Miss., Marks—B. B. Hamilton, Biloxi, erect \$12,000 theater.

Warehouses

La., Shreveport—Shreveport Tile Co., 712 Cotton St., soon call for bids for 1-story brick office and supply house; Clarence W. King, Archt., Giddens-Lane Bldg.

Md., Baltimore—Hutzler Brothers, Albert D. Hutzler, Pres., 212 N. Howard St., erect garage and warehouse. See Motor Cars, Garages, Filling Stations.

Miss., Greenwood—Orgill Brothers Co., 505 Tennessee St., Memphis, Tenn., having plans prepared by Frank R. McGeary for 3-story and basement brick and conc. warehouse; comp. roof, conc. floors.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Fla., Tampa—Antonio Reina, 1105 Tenth Ave., is chairman of comm. to erect \$50,000 bldg., to be called United Secret Orders Hall, Inc., 15th St. and Tenth Ave.; brick, Italian type; Price & Deminichis, Archts.; Logan Bros., 706 Franklin St., Contrs.

Tex., Houston—Eastgate Lodge No. 1156,

A. F. & A. M., erect brick veneer temple, Sherman and 69th Sts.; 2 stories, 40x70 ft.; Henry Stube, Archt.; day labor.

Bank and Office

Ark., Little Rock—A. N. McAninch, 2819 Wolfe St., and associates erect 5-story fireproof office bldg., W. Second St. near Spring

St.; rein. conc., 40-ft. front; Gordon Walker, Contr.

D. C., Washington—Southern Railway System, Fairfax Harrison, Pres., let contract to Consolidated Engineering Co., 20 E. Franklin St., Baltimore, Md., for \$2,000,000 executive headquarters office bldg., 14th and K Sts., N. W.; brick, 10 stories; Waddy B. Wood, Archt., 16 Jackson Place, N. W.; sub-contracts not yet let. 10-4

Ga., Atlanta—Atlanta & Lowry Bank let contract to Barge-Thompson Co., 136 Ellis St., N. E., to remodel bldg., 181 Peachtree Drive, for Piedmont Branch; Morgan, Dillon & Lewis, Archts., Grant Bldg. 10-11

Ga., Atlanta—Ingalls Iron Works, 720 Ave. D, Birmingham, Ala., reported, has contract for 1200 tons fabricated struct. steel for \$750,000 Rhodes-Haverty Co. office bldg.; Pringle & Smith, Archts., Norris Bldg.; Southern Ferro Concrete Co., Contr., 70 Ellis St., N. W., both Atlanta. 10-18

Mo., St. Louis—Following sub-contracts let for \$1,500,000 Plaza-Olive Bldg. for Plaza Realty Co.: Excavation, J. A. Schaefer Excavating Co., 520 N. Grand St.; plumbing, heating, ventilating, etc., J. A. McBride Mechanical Equipment Co., 2639 Locust St.; elect. work, Chapline Electric Co.; steel windows and elevator enclosures, Sears & Piou; misc. iron and bronze, Lasar Manufacturing Co., 1313 N. 16th St.; millwork, Huttig Sash and Door Co., 1280 S. Vandeventer St.; terra cotta, Northwestern Terra Cotta Co., 4417 Oleatha St.; Preston J. Bradshaw, Archt., 718 Locust St.; Boaz-Kiel Construction Co., Contr., Ambassador Bldg. 10-25

Tenn., Memphis—E. A. Devin, Memphis, has excavation contract for \$2,000,000 bank and office bldg. for Bank of Commerce and Trust Co.; rein. steel, Laclede Steel Co., St. Louis, Mo.; structure select gray Indiana limestone, polished granite base, 3 stories and basement, rein. conc. and struct. steel frame, fire and burglar proof, etc., cast iron and steel windows and window frames; Harker & Cairns, Archts., 123 S. Court St.; S. & W. Construction Co., Contr., both Memphis. 10-25

Tenn., Memphis—Virginia Bridge & Iron Co., Roanoke, Va., reported, has contract for 3500 tons fabricated struct. steel for \$2,500,000 Sterick Bldg. for Wyatt C. Hedrick, Archt., 1st National Bank Bldg., Fort Worth, Tex.; Bellows-Macley Construction Co., Contr., Constr. Indus. Bldg., Dallas, Tex. 8-9

Tenn., Memphis—A. Horn, 411 Peachtree Rd., erect \$13,500 duplex, 1478 Peabody St.; brick veneer, 2 stories; A. Eberhart, Contr., 66 South Third St.

Tex., Big Spring—Petroleum Building Corp. of Big Spring, Dr. G. T. Hall, member, started work on \$150,000 office bldg.; rein. conc., 6 stories, 50x90 ft., terrazzo and Duro-Tread floors, conc. foundation, Johns-Manville asbestos roof; Peters, Haynes & Strange, Archts., Myrick Bldg., Lubbock, and Big Spring; Albert L. Randall, Contr., Amarillo Bldg., Amarillo. See Want Section—Building Material and Equipment. 10-25

Tex., Houston—Pittsburgh Plate Glass Co., Pittsburgh, Pa., has contract for plate glass for \$4,500,000 Gulf Bldg. for Jesse H. Jones Co., Bankers Mort. Bldg.; Alfred C. Finn, Archt., Bkrs. Mort. Bldg.; Kenneth Franzheim, 345 Madison Ave., and J. E. R. Carpenter, 589 Madison, both New York, Conslt. Archts.; American Construction Co., Contr., Gulf Bldg., Houston.

W. Va., Martinsburg—Frank J. Trammell let contract for \$20,000 office bldg. to A. R. Small, N. Queen St.; brick, 2 stories, 20x110 ft., wood floors, conc. foundation, comp. roof; furnishings, equipment, etc., \$2000; C. E. Kent, Archt. See Want Section—Building Material and equipment. 10-11

Churches

Ala., Birmingham—Grants Chapel, A. M. E. Church, 3915 Fifth Ave., South, let contract for \$25,000 bldg., 30th St. and Fourth Ave., to Meeks & Son, 5632 First Ave.; brick, 1 story and basement, built-up roof. 3-22

Ala., Ensley—Ensley Christian Church, Rev. J. G. Morris, Pastor, let contract to L. C. Ellison & Co., 2907 Sixteenth Ave., to remodel bldg.; \$10,000; Wm. Leslie Welton, Archt., Amer. Traders Bk. Bldg., Birmingham. 10-11

Ark., West Fork—Presbyterian Church started work on \$15,000 building. Address The Pastor.

D. C., Washington—Calvary Baptist Church erect Sunday school, Eighth and H Sts., N. W.; conc. constr., seam face granite with cut stone trim, brick and terra cotta walls, 3 stories and basement, linoleum and tile floors, slag roof; Arthur B. Heaton, Archt., 1211A Connecticut Ave., N. W.; Skinker & Garrett, Contrs., 1416 F St., N. W. 10-11

D. C., Washington—Following sub-contracts let on \$350,000 church, Sunday school and manse for Church of the Pilgrims, Southern Presbyterian: Waterproofing, Western Waterproofing Co., Abbott Bldg., Philadelphia, Pa.; dampproofing, Wm. F. Zeller & Co., Inc.; slate roof, Edw. G. Fick, 109 E. Lombard St., both Baltimore, Md.; brick work and partitions, David C. Butcher, Rust Bldg.; rein. steel, Concrete Steel Co., 2525 Penn. Ave.; plastering, P. Vasco, G St., N. E. folding doors, Taylor Folding Partition Co., Investment Bldg.; slag roof, Warren-Ehret Co.; sheet metal, Ernest Giehner Metal Works, 1107 E. N. W.; painting, W. F. Andrews, 1804 14th St., N. W.; orna. iron, Washington Stair & Ornamental Iron Works; struct. steel, Barber & Ross, Inc.; hardware, James B. Lambie Co., 1415 N. Y. Ave., N. W.; plumbing, W. L. Gary Co., 3111 14th St., N. W.; heating and ventilating, Standard Engineering Co., 2129 1st. N. W.; wiring, Cunningham Electric Co., Bond Bldg.; steel windows, Standard Steel Window Co., 315 13th St., N. W.; marble, tile and terrazzo, Standard Art Marble & Tile Co., 334 C St., N. W., all Washington; millwork, Eisinger Mill & Lumber Co., Bethesda, Md.; kalamain doors, Syracuse Fire Door Co., Syracuse, N. Y.; glazing, vents Muntin bars, Thos. Fisher, Atlantic City, N. J.; lightning rods, Boston Lightning Rod Co., 755 Boyle St., Boston, Mass.; Flournoy & Flournoy, Archts., 816 Connecticut Ave., N. W.; George A. Fuller Co., Contr., Munsey Bldg., both Washington; cut stone by Contr. 10-25

Miss., Bovina—W. G. Wetmore Construction Co., Jackson, has contract for 1-story and basement brick church, Rev. Val H. Sessions, Rector; Emmett J. Hull, Archt., Merchants Bank Bldg., Jackson.

Mo., Springfield—Pythian Avenue Baptist Church, Earl Grant, Chmn., Bldg. Comm., let contract to Caldwell & West, 924 E. Central St., for 1-story, brick and tile bldg., George and Roger Sts.; 80x48 ft., hardwood pine floors, comp. roof; foundation in; auditorium seat 300; W. N. Thompson Archt., 430 Loren St. See Want Section—Building Material and Equipment. 10-25

Mo., St. Louis—St. Matthew E. L. Church let contract to Kellermann Contracting Co., Victoria Bldg., for \$65,000 English Gothic type brick and conc. bldg., Gilmore and Harney Ave.; limestone trim, 1 story, about 106x56 ft., red and brown flat shingle tile roof; Theo. Steinmeyer, Archt., Intl. Life Bldg. 10-4

N. C., Spencer—Methodist Protestant Church completed foundation for bldg., Carolina and Eighth Sts., brick veneer, 30x46 ft., slate roof; D. A. McLaurin, Contr., Concord.

Tex., Amarillo—First Baptist Church let contract to W. G. Windsor Construction Co., Oliver-Eagle Bldg., for \$355,000 bldg., Tyler and 13th Sts.; brick, conc. and steel, auditorium and 4-story Sunday school, 123x204 ft., terrazzo, cement and linoleum floors, metal lath and tile partitions, 106 ft. campanile, steam heat, warm air; auditorium seat 1500, Sunday school accommodate 2700; structure planned by Harry Beauchamp, member, Sunday School Bd., 3205 Drexel Drive, Dallas; Ferrand & Fitch, Archts., 6188-A Delmar Blvd., St. Louis, Mo.; Guy A. Carlander, Asso. Archt.-Constr. Supvr., Flsk Med. and Prof. Bldg.; wiring, Triangle Electrical Co., 113 W. Seventh St., Amarillo. at \$7850. 8-16

Tex., Memphis—First Christian Church let contract to W. E. Johnsey, Memphis, for \$35,000 brick bldg., Tenth and Main Sts. 8-23

Va., Hopewell—First Presbyterian Church, Rev. Jas. E. Cook, Pastor, completed foundation for brick building.

City and County

N. C., Charlotte—City Coman. let contract at \$35,901 to Carolina Co., 35 E. Track St., for Myers Park and Wesley Heights fire stations; Chas. C. Hook, Archt., Commercial Bank Bldg. 10-18

Tex., Arlington—City Council let contract to Ball Construction Co. for \$25,000 city hall; white brick and conc. tile, 60x100 ft., 1 story and basement, fireproof vault; auditorium seat 600. 10-4

Tex., Houston—City Council let contract at \$13,300 each to R. B. Panas, Binz Bldg., for 2 police sub-stations, North Side and Heights West End district; plans by W. A. Dowdy, City Archt. 10-18

Tex., Pampa—Gray County Bd. of Commrs. let contract at \$213,000 to H. L. Case, Pampa, for fireproof courthouse; cut stone, brick and steel, 4 stories 86x120 ft., elevator, vapor-vacuum heat, 3 entrances; furnishings, equipment, etc., \$35,000; W. R. Kaufman, Archt.-Engr. 7-26

Va., Roanoke—City, W. P. Hunter, City Mgr., will probably let contract at \$28,000 to T. J. Davis Building Construction Co.,

Inc., MacBain Bldg., for Firie Station No. 9, Melrose Ave.; brick, steel and conc., 2 stories and basement, 62x45 ft., terrazzo and wood floors, conc. foundation, comp. roof; Frye & Stone, Archts., MacBain Bldg. 10-25

Dwellings

Ala., Birmingham—Thos. R. Walker, 4421 1/2 Seventh Ave., Wylam, has contract for brick veneer dwelling, Howard College Estates; 1 story, 32x50 ft.; Philip S. Mewhinney, Archt., Woodward Bldg.

Ala., Birmingham—Rufus A. Duvall, 3135 Norwood Blvd., erect \$15,000 brick veneer residence, Forrest Park; 2 stories, 40x58 ft., comp. roof, steam heat; Jacob E. Sallie, Archt., Exch. Bldg.; owner builds.

Ala., Birmingham—I. F. Perkins, 2205 Ridge Park Ave., erect brick veneer residence, Mountain Brooke Estates; 2 stories, 27x70 ft., slate roof, steam heat; E. B. Van Keuren, Inc., Archt., 407 Comer. Bldg.; day labor.

Ala., Talladega—Bemis Bros. Bag Co., 901 S. Fourth St., St. Louis, Mo., let contract to Fiske-Carter Construction Co., Masonic Temple Bldg., Greenville, S. C., for number employees' dwellings, in connection with mill construction, Bemiston near Talladega. 10-18

Ala., Tuscaloosa—Ellison H. Bingham let contract to A. Laycock & Sons for \$12,000 residence; 2 stories, comp. roof, hot air heat; Wm. Leslie Welton, Archt., Amer. Tr. Bldg., Birmingham. 9-13

Ark., Fort Smith—J. I. Maller, 423 S. 13th St., erect brick veneer residence, 404 Lecta Ave.; 1 story and basement, 30x38 ft.; J. S. Davis, Contr., Merchants Bank Bldg.

Ark., Fort Smith—Charlie Wood, N. 14th St., erect \$12,000 residence, 2715 Lela Ave.; brick veneer, 2 stories; Chris Reichardt, Archt., First Natl. Bank Bldg.; day labor.

Fla., Polk City—Central Florida Warehouse Co. completed foundations for 3 dwellings; tile and stucco, 1 story, 32x43 ft., wood floors, comp. roofs, \$15,000; plans by owner; J. Harold Addison, Contr.

Fla., Coral Gables—Carl Green erect \$46,000 residence, 635 N. Greenway Drive; conc. block, tile and wood floors, tile roof; A. DeH. Zink, Archt., Seybold Bldg., Miami; owner builds.

Fla., Coral Gables, Miami—T. C. Taylor Construction Co. erect \$18,000 dwelling and garage, 1032 Avenue Andalusia; conc. block, 2 stories; owner builds.

Fla., Hopkins—Foshee Lumber Co. erecting 35 laborers' dwellings.

Fla., Miami Beach—John M. Stevenson, 5013 Keyser St., Philadelphia, Pa., erect \$10,000 residence, Pine Tree Drive near 56th St.; Saml. J. Hale, Contr.

Fla., Miami Beach—David A. Thompkins, erect \$10,000 residence, 5346 Pinetree Drive; conc. block, 2 stories; S. J. Hale, Contr., Normandy Isle.

Fla., Miami Beach—Geo. B. Howe erect \$15,000 residence, 5236 Pinetree Drive; conc. block, 2 stories; C. E. Haley, Contr., Seybold Bldg., Miami.

Fla., Miami Beach—Mrs. N. D. Smedley erect frame residence, West Ave. and 18th St.; 1 story; Wm. S. Green, Contr.

Fla., New Port Richey—Thos. Meighan let contract to American Sanitary Sewage Co., 206 S. Franklin St., Tampa, for Roman plunge and solarium.

Fla., Tampa—Edw. K. Nelson, 111 Hyde Park Pl., erecting residence, 180 Baltic Circle, Davis Islands; 11 rooms, 2-car garage and servants' quarters, stucco and hollow tile, tile roof; Frank A. Winn, Archt.; B. F. Walker & Sons, Contrs., 116 1/2 E. Lafayette St.

Fla., Tampa—Tampa Morning Tribune erecting \$11,500 model dwelling, 61 Ladoga Ave., Davis Islands; stucco and hollow tile, 6 rooms; Henry La Pointe, Huntington Ave., Miami; Frost Construction Co., Contr., 601 Marvin St., Tampa. 9-27

Fla., Tampa—C. W. Lawrence, 1008 Louisiana Ave., erecting modified Italian type residence, 75 Bahama Circle, Davis Islands; hollow tile and stucco, 8 rooms; R. W. Bethea Co., 929 S. Oregon Ave., Designers-Bldrs.

Fla., Tampa—R. B. Curlln, 201 Thomas Ave., erecting brick residence, 24 Baffin Ave., Davis Islands; plans and construction by owner.

Fla., Tampa—Oliver LaMay, Archt.-Bldrs., St. Petersburg, erecting hollow tile and stucco dwelling, 325 Blanca Ave., Davis Islands; 2 stories.

Fla., Tampa—P. O. Wall erecting Spanish type residence, 167 Baltic Circle, Davis Islands; hollow tile and stucco, Spanish tile roof.

La., Belcher—E. A. Connell erect \$12,000

residence; E. A. George, Archt., Giddens-Lane Bldg.; Land Building Co., Contr., both Shreveport.

La., New Orleans—M. DeKemel, Contr., 1202 N. Galvez St., erect single dwelling, Gov. Nichols St. near N. Galvez.

La., New Orleans—B. J. Mertzweiler, Contr., 2431 Gladiola St., erect double raised dwelling, 2440-42 Verbena St.

La., New Orleans—Peter Memarich erect double residence, 3624-26 Frenchmen St.; Geo. J. Lupo, Contr., 3419 Milan St.

La., New Orleans—Fred W. Ellsworth, 13 Richmond Place, let contract to G. L. Houston, 2437 Fern St., for alterations and additions to residence; Favrot & Livaudis, Ltd., Archts., Hibernia Bldg.

Md., Baltimore—Chas. D. Mackall, Cecil Apt., and Louise B. Mackall erect \$15,000 residence and garage, 311 Braxton Rd., Homeland; 2 stor., 32x33.6 ft. and 20x21 ft., slate roofs, vapor heat; T. Worth Jamison, Archt., 12 E. Pleasant St., Younger & Riddle, Contrs., 4400 Carleview Rd.

Md., Baltimore—Roland Park-Homeland Co., Roland Park, completed foundations for 2 dwellings, Charles St. and Upnor Rd. and Charles and Witherspoon Rd.; brick, stone and wood, 2½ stories, oak floors, slate roofs; Palmer & Lambdin, Archts., 513 N. Charles St.; Thomas Hicks & Sons, Inc., 106 W. Madison St., contract at \$100,000.

Md., Baltimore—Daniel Shipley, 1104 W. 36th St., erect 10 brick dwellings, S. E. cor. Chestnut and Snger Aves.; 2 stories, 16x42 ft., steam heat; \$20,000; Fredk. E. Beall, Archt., 306 St. Paul Place; owner builds.

Md., Baltimore—Frederick Construction Co. erect 4 brick dwellings, S. side Boarman Ave. E. of Garrison Ave.; 2 stories, 15x45 ft., steam heat; Geo. Wessel, Archt.; 601 W. 40th St.; owner builds.

Md., Baltimore—Geo. W. Schoenhals, 2315 Mosher St., erect 16 additional brick dwellings, 2300 block N. Monroe St.; 6 rooms and bath; work started.

Md., Baltimore—Jos. Peters, Bldr., Falls Road, erect 17 brick dwellings, 1301-33 W. 40th St.; 2 stories; \$37,500.

Md., Baltimore—Jes. Plumer, Hazelwood Ave., erect 2 frame dwellings, 4604-06 Mary Ave.; 1½ stories, 24x26 ft., hot water heat; \$10,000; Fred T. Beiz, Archt.-Contr.

Md., Baltimore—John H. Sause, Jr., 3100 Falt Ave., erect 4 frame dwellings, 2826-32 Beechland Ave.; 2 and 1 story, 24x32 ft. and 20x26 ft., hot water heat; \$12,300; T. H. Webb, Archt.; Necker Bros., Contrs.

Md., Baltimore—John Welsh erect 3 frame dwellings, 407-11 Rock Glen Ave.; 1½ stories, 24x28 ft., slate roofs; \$10,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—C. G. Fenwick erect \$10,000 residence, 1009 Winding Way; stone, 2 stories, 64x27.6 ft., slate roof; Davis & Westenhaver, Archts.; Glendale Realty Co., Contr.

Mo., Clayton, St. Louis—L. Agatstine, 6253 Southwood Rd., erect \$12,000 residence, Cloverock St., Moorland Park; brick, 38x33 ft.; J. H. Williamson, Contr., 7039 Waterman St.

Mo., Crescent—Gertrude L. Frazer, care Arthur T. Grinden, Archt., 7372 Sutherland Ave., Webster Groves, remodel residence.

Mo., Kansas City—Tim Kelly & Son, Bldrs., erect 2 dwellings, Pleasanton Ave. near Bellevue Ave.

Mo., Kirkwood, St. Louis—M. E. Wakefield, 5036A Parker Ave., St. Louis, erect \$15,000 residence, Osage Hills; 2 stories, 49x32 ft., comp. roof; owner builds.

Mo., Springfield—L. W. Houk, 708 Weller Ave., erect \$10,000 residence, Catalpa St.; frame, brick trim, 2 stories and basement, 40x35 ft., oak floors, tile baths, hot water heat; Wilmer N. Thompson, Archt., 430 Loren St.; day labor.

Mo., St. Louis—J. P. Fendler, 5615 Lisette St., erect 14 brick dwellings, 5600 block Rhodes St.; 1 story, 28x43 ft., slate roofs, hot air heat; \$84,000; A. F. Stauder, Archt., 6028 S. Kingshighway; owner builds.

Mo., St. Louis—J. Moon, 1200 N. Broadway, erect \$15,000 residence, Kingshighway Blvd.; 2 stories, 45x50 ft., hardwood floors, conc. foundation, tile and prepared roofing; Robt. L. Coore, Archt., 4205 N. Market St.; Mr. Williams, Contr., care Archt. See Want Section—Machinery and Supplies; Building Material and Equipment.

Mo., St. Louis—Eugene H. Paulus, Archt., 4955 Northland Place, erect \$17,000 dwelling, McLaren Ave. near Goodfellow Ave., Hills at the Gateway; 1½ stories and basement, 30 x53 ft., hardwood floors.

Mo., St. Louis—Arrow Realty & Investment Co., 4500 N. Euclid Ave., erect 5 brick dwellings, 4922-36 Hoke St.; 1 story and

basement, 26x35 ft., hardwood floors, tile baths, asphalt shingle roofs, hot air heat; C. Wilcox Construction Co., Contr., 4533 N. Kingshighway Blvd.

Mo., St. Louis—Richard C. Oberman, 3961 Ashland Ave., let contract to Chris Spoene-man, 4142 Farlin Ave., for \$18,000 residence, Normandy Grove; brick, 2 stories and basement, 35x36 ft., hardwood floors, slate roof, tile baths, hot water heat; T. P. Barnett Co., Archt., Arcade Bldg.

Mo., St. Louis—Queens Investment Co., 4533 N. Kingshighway, erect 6 brick dwellings, 4922-24-28-32-36-39 Hoke St.; 1 story, 26x35 ft., asphalt shingle roofs, hot air heat, \$24,000; O. R. Sever, Archt., 5200 Alcott St.; C. Wilcox Contracting Co., Contr., 4533 N. Kingshighway.

Mo., University City, St. Louis—J. H. Drabelle, 6119 Pershing St., erect \$10,000 brick residence and garage, 7118 Maryland Ave.; 2 stories, 37x32 ft., tile roof, hot water heat; J. H. Williamson, Archt.-Contr., 7039 Waterman St.

Mo., University City, St. Louis—Advance Realty & Building Co., 7217 Princeton St., erect \$10,000 brick dwelling, 7246 Princeton Ave.; 2 stories, brick, 35x32.6 ft., tile roof, steam heat; Chas. W. Gorges, Archt., 7217 Princeton; owner builds.

N. C., Charlotte—N. R. Smith erect \$12,500 residence, Henley Place; 8 rooms; Southeastern Construction Co., Contr.

Okla., Oklahoma City—Callaway, Nicholson & Foster, Inc., Med. Arts Bldg., started work on 5 dwellings, Gatewood Ave., Gatewood Addition; sell for from \$12,750 to \$14,000 each; also plans dwellings in Lincoln Terrace Addition.

Okla., Oklahoma City—W. F. Ing erect 2 brick dwellings, Creston Hills; \$14,000; work started.

S. C., Aiken—S. A. Warner Baltazzo, Westbury, Long Island, let contract to Frank Wheatley Co., 510 Crawford St., Augusta, Ga., for \$25,000 residence; brick veneer, 2 stories and basement, wood shingle roof; Scroggs & Ewing, Archts., S. F. C. Bldg., Augusta.

N. C., Charlotte—Mallonee Co., 120 Bldrs. Bldg., completed frame for \$14,000 brick veneer dwelling, 412 Queens Rd., west; 2 stories, 60x27 ft., hardwood floors, Buckingham slate roof; Louis H. Asbury, Archt., E. Fourth St.; all sub-contracts let.

Tenn., Memphis—L. D. Powell, 1719 Galloway Ave., erect \$11,000 residence, 600 Center Drive; brick veneer, 2 stories, garage; day labor.

Tenn., Memphis—L. C. Walker, 975 Forrest St., erecting \$10,000 duplex, 2388 Poplar Ave.; 2 stories and basement, oak floors, tile baths, comp. shingle roof, steam heat; owner builds.

Tenn., Memphis—A. Horn, 38 S. Main St., erect \$15,000 duplex, 1478 Peabody Ave.; 2 stories and basement, oak floors, tile bath, comp. shingle roof, hot water heat; A. Eberhart, Contr., 376 S. Bellevue Blvd.

Tex., Beaumont—Following sub-contracts let for \$300,000 residence for J. H. Phelan: Electrical work, Neches Electric Company, 259 Crockett St.; plumbing, A. J. Coburn Plumbing Co., 1348 Park Ave.; sand, gravel and cement, Texas Builders Supply Co., South and Forrest Sts.; finish hardware, Tyrell Hardware Co., 600 Orleans St., all Beaumont; heating and ventilating, Smith & Whitney, 2017 Cedar Spgs., Dallas; rein. and struct. steel, Houston Structural Steel Co., 3910 Washington St.; orna. iron, A. A. Berger & Co., 310 Preston Ave., both Houston, Tex.; weather strip, Chamberlin Metal Weather Strip Co., 1644 W. Lafayette St., Detroit, Mich.; Owen J. Southwell, Archt., Haas-Howell Bldg., Atlanta, Ga.; Homer L. Fry, Landscape Archt., Athletic Bldg., Dallas; C. F. Law, Contr., Wall and Archie Sts., Beaumont.

Tex., Brownsville—Jose Calderoni let contract for \$10,000 residence to S. W. McKenzie; brick and hollow tile, 2 stories, 10 rooms, tile roof, conc. foundation; E. G. Holliday, Archt.

Tex., Houston—R. E. Fox, 211 Hamilton St., erecting 3 brick veneer dwellings, Idylwood; \$22,500.

Tex., Houston—E. R. Simeaux erecting \$10,000 residence, 2008 Truxillo St., Washington Terrace; Ben Neff in charge of construction.

Tex., San Antonio—L. E. Fite, 317 W. Travis St., let contract for \$25,000 stucco residence, W. Mulberry St. near Fredericksburg Rd., to Guaranty Building Corp., 317 W. Travis St.; 2 stories, 9 rooms, 2 baths, servants' quarters.

Tex., San Antonio—Dr. J. M. Venable, Med. Arts Bldg., erect brick and stucco residence, Park Hill Drive, Park Hill Estates; 2 stories, 8 rooms, 2 baths; American Building Co., Contr., Real Est. Bldg.

Government and State

Md., Fort Leonard Wood—Berger Manufacturing Co., 16th and Wash. Ave., Philadelphia, Pa., has contract for steel lockers for barracks, Fort Leonard Wood.

Tenn., Memphis—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at \$121,999 to Devault & Deitrick, Inc., Canton, O. for extension to DeSoto post office sub-station.

W. Va., Philippi—Philippi Improvement Co. excavating for \$40,000 bldg. for post office and court house; Pasquale Construction Co., Contr., 687 Hyde Park Ave., Boston, Mass.

Hospitals, Sanitariums, Etc.

Ark., Dumas—Dr. A. Isom erect \$20,000 sanitarium, Second and Main Sts.; brick and conc., 2 stories, wood floors, comp. roof; W. G. Leek, Contr.

D. C., Washington—Constructing Quartermaster, Army Medical Center, let contract at \$8973 to Maloney Paving Co., 3817 Alton Place, N. W., for roads, parking area, sidewalks and drainage system.

La., Shreveport—Wessell Plumbing Co., 719 Millam St., has contract at \$18,570 for heating, plumbing and ventilating for \$150,000 work at Charity Hospital; Seymour Van Os, Archt., Merchants Bldg.; H. & B. Construction Co., Contr., Ricou-Brewster Bldg.

Tex., Childress—Dr. Jeter and Dr. Townsend, Mangum, Okla., excavating for 25-room hospital; F. G. Stewart, Contr., Mangum.

Tex., Sanatorium—State Bd. of Control, R. B. Walthall, Chmn., Austin, let contract for 1-story, conc. frame and stucco negro cottages, State Tuberculosis Sanatorium, to F. M. Reeves & Son, San Angelo; Phelps & DeWees, Archts., Gunter Bldg., San Antonio.

Hotels and Apartments

Ark., Little Rock—Following sub-contracts awarded on \$1,000,000, 10-story, Albert Pike Hotel under construction for Farrell Hotel Co., Boyle Bldg., for which W. Frank Ault, Moore & Turner Bldg., has general contract; heating and plumbing, El Dorado Plumbing and Heating Co., El Dorado; electric work, Art Electric Co., Louisiana St.; mill work, Arkla Sash & Door Co., 124 E. 3rd St.; tile and marble, S. W. T. & Marble Co., 433 W. Washington St.; plastering, C. B. Humphries; stone, P. H. Scheid, 1301 E. 3rd St.; brick, Acme Brick Co., 115 Center St.; roofing and sheet metal, J. T. Hornbrook, 115 E. 3rd St.; Eugene John Stern, Archt., A. O. U. W. Bldg.; W. J. Knight & Co., Engrs., Wainwright Bldg., St. Louis, Mo.

D. C., Washington—L. H. Charles Co., 1424 K St., N. W., let contract to M. A. Long, Albee Bldg., for \$300,000, 8-story and basement, 60x110 ft. conc., brick and limestone trim, colonial type apartment, 2514-16 Fourteenth St., N. W.; slag roof, marble, tile and rubber floors, 2 elevators, vapor heat, metal windows and doors; Milburn Heister & Co., Archts., Hill Bldg.

Fla., Cocoa—Canaveral Harbor Corp., T. L. Broughton, Pres., started work on 10-room hotel at Canaveral Harbor; 2 stories, Spanish type, stucco trim; Niel Wiggins, Contr.

Fla., Tampa—C. G. Phillips, 908 Grand Central Ave., erecting 3-story, rein. conc. and steel, Spanish type, 24-apartment, 511-13 Columbia Ave.; Franklin O. Adams, Archt., 510½ Franklin St.

Ga., Atlanta—George H. Miller, 1510 Rodgers Ave., S. W., let contract to Green & Brown, 252 Peachtree Arcade, for \$12,500, 1½-story and basement brick veneer apartment, 1434 Gordon St., S. W.; comp. roof, hardwood floors, hot-air heat.

Ga., Atlanta—W. N. Tumlin, 1221 Gordon St., S. W., erect \$50,000, 2-story and basement, cinder block and stucco, 48-room apartment, 647 Lawton St., S. W.; hardwood, cement and tile floors, tar and gravel roof, steam heat; owner builds.

Ga., Atlanta—A. N. Canton, Box 1268, started work on 3-story, 100x50 ft. brick veneer apartment, Peachtree and 28th Sts.; built-up roof, oak floors, steam heat; owner, Archt.-Engr.; day labor. See Want Section—Building Material and Equipment.

Ga., Atlanta—J. F. Evans, 2055 Ponce de Leon Ave., N. E., erect \$37,500, 2-story and basement, brick veneer, 12-unit apartment, 3528-36 Alston Drive, S. E.; tar and gravel roof, conc., hardwood and tile floors; owner builds.

La., Lake Charles—Union Art Mosaic &

Tile Co., 2012 McKinney St., Houston, Tex., has contract for tile and terrazzo work on 10-story hotel being erected for W. P. Weber and H. T. McLain; McDaniel Bros., Gen. Contrs., Box 826, Beaumont; Joseph Finger, Archt., Keystone Bldg., Houston. 10-25

Mo., Cape Girardeau—J. L. Jones let contract to Boren Bros. for 1-story, 20x80 ft., brick, Spanish type restaurant, 715 Broadway; Reither & Lindsay, Archts. 10-25

Mo., Jefferson City—Charles Graham erecting 2-story, 51x36-ft. brick, 16-room flat, 310-12 E. Miller St.

Mo., Jefferson City—W. E. Amos started work on 2-story, 51x36-ft. brick, 4-family flat, 306-08 E. Miller St.

Mo., St. Louis—A. H. Tucker, 5333 Pershing Ave., let contract to Gordon Horen Realty Co., 906 N. Grand Blvd., for \$75,000, 3-story, brick, 9-apartment, Wydown Blvd., Blue Ridge Terrace; C. E. Etz, Archt., Title Guaranty Bldg. 10-4

Mo., St. Louis—O. R. Ritscher, 3503 Pine Grove St., erect \$20,000, 3-story, 55x87-ft. brick tenement, 5000 Queens St.; B. Jackson, Archt., 520 Buder Bldg.

Mo., St. Louis—H. H. Ball, 4545 Kennerly St., erect \$10,000, 2-story brick tenement; W. H. Schulte, Bldr., 2806 N. Grand Ave.; C. H. Detering, Archt., Central Natl. Bnk. Bldg.

Mo., St. Louis—L. E. Wilneck, 5400 Gravois Ave., erect \$10,000, 2-story, 34x52 ft. brick tenement, 5034-36 Arenas drive; comp. roof, hot-air heat; Salder Bros., Bldr., 3001 Washington St.

Mo., St. Louis—N. J. Govar, 6485 Childress St., erect two 2-story, 26x38 ft., brick tenements, 3284-86 Watson Road; \$15,000, asphalt shingle roofs hot-air heat; J. Dryton, Archt.-Bldr., 6205 Odell St.

Mo., St. Louis—Union Realty & Construction Co., erect four 2-story, 33x44 ft. tenements, 2141-55 Angelica St.; also 2-story, 34x52 ft. tenement, 5623-25 St. Louis St.; \$46,000; brick, hot-air heat, tar and gravel roofs; M. D. Larner, Archt., both 5554 Easton St.; owner builds.

Mo., St. Louis—Alvin Construction Co., 5832 Terry St., has permit for five two-story, 34x46 ft., brick tenements, 5701-19 St. Louis Ave.; \$45,000, comp., tar and gravel roofs, hot-air heat; B. Shapiro, Archt., 4202 Holly St.; owner builds.

Mo., St. Louis—Kuhn & Kuhn Construction Co., 5812 Columbia St., erect \$12,000, 2-story, 53x42-ft. brick tenement, 3965-69 McDonald St.; comp. roof, hot air heat; owner builds.

Mo., St. Louis—Following sub-contracts awarded for \$1,000,000, 10-story and basement, 103x139-ft., brick, rein. conc., fireproof, 125-unit apartment, Brand Blvd. north of Magnolia Ave., for Carl Anschuetz, 3503 Sidney St., for which Boaz-Kiel Construction Co., 1207 Ambassador Bldg., has general contract; Plumbing, Jim Fowler Plumbing Co., 3740 S. Grand Blvd.; heating, O'Mara Heating Co., Victoria Bldg.; terra cotta, Winkle Terra Cotta Co., Century Bldg.; J. T. Craven Engineering Co., Archt.-Engr., 949 Century Bldg.

Mo., St. Louis—P. P. Aubuchon, 5375 Northland Ave., excavating for \$11,000, 2-story and basement, 34x48-ft., brick, 4-unit apartment, 5206-10 Spalding Ave.; tar and gravel roof, hardwood floors; owner, Archt.-Bldr.

Mo., St. Louis—Wm. H. Pilman, 26 Highland Terrace, Richmond Heights, excavating for \$18,000, 2-story and basement, 34x52-ft., brick, 4-unit apartment, 6661-63 Berthold Ave.; tar and gravel roof, stone foundation, hardwood floors, hot water heat; owner, Archt.-Bldr.

Mo., St. Louis—V. A. Chinberg, 808 Chestnut St., erect \$80,000, 2-story and basement, 97x150-ft., brick, 20-unit apartment, Alexander Ave.; stone foundation, hardwood floors, comp. roof, tile baths; O. J. Popp, Archt., 1528 Arcade Bldg.; owner builds.

Mo., St. Louis—D. Goodman, 617 Chestnut St., excavating for \$20,000, 2-story and basement, 30x74-ft., brick apartment, 3538-40 Hereford St.; stone foundation, ruberoid roof, hardwood floors, steam heat; owner, Archt.-Bldr.

Mo., University, St. Louis—F. Gartin, 5836 Enright St., erect \$10,000, 2-story, 27x47-ft. brick flat, 7318 Amherst St.; slate roof, hot water heat; W. W. Rafferty, Contr., 615 Chestnut St.; W. W. Sabin, Archt., 5816 Enright St.

Mo., University City, St. Louis—Sam Blacklock, 1525 Chemical Bldg., erect 2-story and basement, 56x68-ft., brick, 4-unit apartment, Belmar Blvd.; terra cotta trim, incinerators, hardwood floors, comp. roof, steam heat; Wedemeyer & Nelson, Archts., 824 Wainwright Bldg.; owner builds.

N. C., Hendersonville—Connors Steel Co., Empire Bldg., Birmingham, Ala., has contract for 150 tons rein. steel for \$325,000, 7-story hotel for Jones Investment Co., 1012 Dilworth road, for which J. A. Jones Construction Co., Commercial Bank Bldg., has general contract; Louis H. Asbury, Archt., 1514 E. Fourth St., all Charlotte. 8-23

Okla., Durant—Following sub-contracts awarded on \$200,000, 4-story, 110-room hotel for L. F. Lee, Clarence Dyer and Sam Swinney for which Manhattan Construction Co., Manhattan Bldg., Muskogee, has general contract; Millwork, American Sash & Door Co., Mayo Bldg., Tulsa; heating, Grinnell Heating Co., Pioneer Trust Co. Bldg., Kansas City; wiring, Valentine Electric Co., 221 W. Okmulgee St.; painting, R. M. Burchett, both Muskogee; stone, Algoutte Stone Co., 4606 Chipewa St., St. Louis; 5 stories, brick, rein. conc.; Layton, Hicks & Forsythe, Archts., Oklahoma City. 4-25

Okla., Tulsa—A. L. Martin, 13-B East 18th St., started work on \$100,000, 3-story, brick and hollow tile, 51-apartment; day labor.

Tenn., Knoxville—Archer Bishop started work on \$16,000, 2-story, brick veneer, colonial type, 4-apartment, 2110 Terrace Ave.; Kirkpatrick & Robertson, Contrs., 749 Western Ave.; A. E. Gredig Co., Archt., Mercantile Bldg.

Tenn., Memphis—W. R. Ray, 3197 King St., started work on \$12,000, 2-story, 30x60-ft. brick veneer apartment, 228 Walker Ave.; comp. and tile roof, oak floors, hot water heat; D. J. Tyler, Contr., Poplar Pike.

Tex., Cisco—Bedford-Carhage Stone Corp., Runnels & Belt Sts., Houston, has contract for Leuders stone on \$450,000 hotel under construction for Cisco Hotel Co., Construction Industries Bldg., Dallas, for which Bellows Maclay Construction Co., Dallas, has general contract; H. B. Thompson, Archt., both Construction Industries Bldg., Dallas. 1-26

Tex., Fort Worth—McMullen Co., 816 Throckmorton St., started work on \$130,000, 3-story, 51-apartment, 4th and Macon Sts.; James T. Taylor, Contr., First Natl. Bk. Bldg.; Frank J. Singleton, Archt., Continental Bldg.

Tex., Joquin—Dr. W. A. Ramley let contract to Joe Smotherman for 3 brick business buildings.

Tex., Plainview—Hilton Hotel Co., N. H. Hilton, Pres., Hilton Hotel, Dallas, let contract to C. L. Shaw, 767 S. Lamar St., Dallas, for \$250,000, 8-story, 110-room hotel, Austin and Sixth Sts.; excavation for basement completed; Henry C. Knight, Archt., Wilson Bldg.; Curtis & Thomas, Asso. Archts., Construction Industries Bldg., both Dallas. 10-25

Tex., San Antonio—Mrs. Agnus Oton, 246 Pacific St., let contract at \$8900 to Chas. H. Baxter, 1901 S. Hackberry St., for 2-story, 40x45 ft., brick and tile 16-room apartment, 438 E. Huilache St.; J. Clyde & Percy W. Williams, Archts., Moore Bldg.

Tex., San Benito—Mrs. A. A. Callaway, Harlingen, erect \$75,000, 3-story, brick and hollow tile, 24-apartment; comp. floors, metal trim, steel sash, fireproof; owner builds under supervision A. A. Callaway, Archt., Harlingen; ready for sub-bids.

Miscellaneous

Ark., Fort Smith—Following sub-contracts awarded on \$125,000 addition under construction for St. Scholastica's Convent for which H. G. Buchanan has general contract: Millwork, Mechanics Lumber Co.; brick, Acme Brick Co.; struc. iron, Ben Sibitt Iron & Foundry Co., Wichita, Kan.; steel, Capitol Steel & Iron Co., Gazette Bldg., Little Rock; electric wiring, Richards Electric Co., Tulsa, Okla.; plumbing, Hartmeir Bros., 100 N. Tenth St.; roofing and sheet metal, Bruce Brothers, 24 N. Ninth St.; plastering, Harry Smith, Fort Smith; marble and tile, Consolidated Cut Stone Co., 1323 E. Fifth St., Tulsa; contracts for painting and interior decorating not let; F. W. Redlich, Archt., Tulsa. 8-2

Fla., Arcadia—Chautauqua Assembly of Florida, L. M. Lindsey, Chmn., Bldg. Comm., let contract to J. A. Christ for 224x124 ft. amphitheater on Cross State Highway; auditorium to seat 4620 people, stage 46x20 ft., accommodate 576 people; 12-ft. corridor all around building; W. Grieme, Jr., Archt., Engineers Bldg., Cleveland, O. 10-25

Fla., Miami Beach—Miami Beach Kennel Club let contract to Harrison Construction Co., 500 N. E. 45th St., Palm Beach, for erecting grandstand and clubhouse; Weed & Virrick, Archts., 328 N. E. Second Ave., Miami. See Construction News—Miscellaneous Construction.

Fla., Tampa—South Florida Fair Bd., Frank D. Jackson, Chmn., Comm., let contract at \$27,350 to Logan Brothers, 706 Franklin St., for addition to grandstand; rein. conc. and steel; increase seating capacity from 2000 to 3500; Francis J. Kennard & Son, Archts., 303 Zack St. 8-23

La., Marrero—Roman Catholic Church, Diocese of New Orleans, let contract at \$68,354 to J. A. Haase, Jr., 916 Union St., New Orleans, for two 2-story, rein. conc., brick and stone trim additions to Mrs. John Dibert Administration Building at Hope Haven Farm; Wm. R. Burk, Archt., Balter Bldg., New Orleans. 9-27

La., New Orleans—Young Men's Gymnastic Club, 224 N. Rampart St., let contract at \$239,100 to R. P. Farnsworth & Co., Maritime Bldg., for 2-story, 60x230-ft. brick, steel and fireproof clubhouse; pile foundation, granite, limestone and marble work, tile, terrazzo, rubber, tiletex, maple and oak floors, comp. roof; Diboll & Owen, Archts., Canal Bank Bldg. 10-4

Miss., Ocean Springs—Gulf Hills, Inc., J. G. Little, Mgr., let following contracts for \$135,000 construction program to be undertaken at Gulf Hills: Masonry and carpentry, J. G. Ziegenfelder, Pascagoula; steel windows, Truscon Steel Co., Youngstown, Ohio; metal window stools, Knapp Bros.; creosoted piling and wharf timbers to be purchased at Gulfport; other items by Mr. Little; plans by William G. Krieg, 80 W. Washington St., Chicago, call for 5 one and two-story, rein. conc., brick, hollow tile buildings containing 54 guest rooms with individual baths; wharf of creosoted piling and timbers to be constructed; recreation and shelter building with observation tower to be built on portion of wharf. 10-25

Mo., St. Louis—Chateau Club let contract to Jesse M. Sprague, 207 International Life Bldg., for \$70,000, 3-story and basement, 40x124-ft. brick clubhouse, Yale and Dale Aves., Richmond Heights; 12 four-room units, billiard room and car storage in basement, hardwood and tile floors, slate and comp. roof, vapor heat; O. J. Popp, Archt., 1528 Arcade Bldg. 10-25

Mo., Kansas City—Women's Christian Assn., E. E. Drake in charge, let contract to H. H. Fox for \$200,000 building for Armour Memorial Home for Aged Couples and three 41x87-ft. buildings for Gillis Orphans' Home, 81st St. and Wornall road; total \$375,000; all buildings 2 stories, fireproof, central heating plant, Georgian architecture; Keene & Simpson, Archts., 1055 Land Bk. Bldg. 8-2

Tex., Texarkana—Texarkana Country Club let contract to White & Collinsworth for \$60,000, 1-story and basement, 208x50 ft., shingle, colonial type clubhouse; Witt, Seibert & Halsey, Archts. 10-11

Railway Stations, Sheds, Etc.

Tex., Houston—Missouri Pacific R. R., C. S. Kirkpatrick, Ch. Engr., 204 Union Station, let contract to O. H. Reichert for 1-story, 130x304 ft., struc. steel frame, iron clad warehouse, Commerce and Buffalo Sts.

Schools

Fla., Gainesville—Delta Chi Fraternity, University of Florida, let contract to Gus Hessel, 1519 N. Grove St., for \$12,000, 2-story, 30x50 ft., tile and stucco addition to frat house; Rudolph Weaver, Archt., 200 Peabody Hall.

Ga., Atlanta—Bd. of Education, R. R. Ritchie, Asst. Supt., 165 Walker St., S. W., erect addition and remodel Tenth St. School; \$25,000, 1-story and basement, 50x60 ft., brick, comp. roof, steam heat, hardwood floors; G. Lloyd Preacher & Co., Inc., Archts., Wynne-Cloughton Bldg.; day labor.

Ga., Atlanta—Bd. of Education, R. R. Ritchie, Asst. Supt., let contract to P. H. Reynolds Co., 206 S. Franklin St., Tampa, Fla., for interior work in 5 schools; \$80,000.

Ga., Gainesville—Riverside Military Academy, Col. Sandy Beavers, started work on \$50,000, 1 and 2 story, 80x120-ft., brick, 20-classroom academic building; auditorium to seat 600, comp. roof, steel columns, metal roof, factory type steel sash, wood floors, steam heat; H. A. Rawlins, Archt.-Engr., 215 Masonic Bldg., Decatur; work by day labor in charge of M. L. Prater. 10-18

Ga., Thunderbolt—Georgia State Industrial College for Negroes, A. Pratt Adams, Chmn., Bd. of Trustees, started work on \$40,000, brick dining hall; colonial architecture, asbestos shingle roof, refrigerating machinery in basement; Cletus W. Bergen, Archt., Liberty Bank & Trust Bldg., Savannah.

La., New Orleans—American & Venetian Marble Co., 615 Julia St., has contract for terrazzo flooring on Dixon Hall at H. Sophie Newcomb Memorial College, for which R. P. Farnsworth & Co., Maritime Bldg., have general contract at \$213,814; Emile Well, Inc., Archt., Whitney Bk. Bldg. 10-25

Md., Reisterstown—Hannah More Academy, Miss L. Fowler, let contract to Hicks Tase Norris Co., 903 Cathedral St., Baltimore, alterations to infirmary and 3-story 54x54 ft., brick addition; \$30,000; Mottu & White, Archts., 527 N. Charles St., Baltimore. 10-18

Miss., Leland—Washington County Bd. of Education, B. L. Hatch, Supt., Greenville, let contract at \$9750 to G. M. Lancaster, Greenville, for 1-story frame school. 10-18

N. C., Winston-Salem—Forsyth County Bd. of Education let contract at \$31,784 to Acme Lumber Co., Kernersville, for 8-classroom and auditorium grade school at Union Cross; Northup & O'Brien, Archts., Starbuck Building. 10-25

Tex., Houston—Bd. of Education, H. L. Mills, Bus. Mgr., let contract at \$13,000 to Rogers-Schwartz Construction Co. for 2-story brick veneer school on Wallisville road for common school district No. 34; John McLeland, Archt. 10-18

Tex., Poteet—School Bd., R. S. Guynes, Sec., let contract at \$13,774 to W. O. Wells for 1-story, brick, rein. conc., cast stone trim, 3-classroom and auditorium high school; Chas. T. Boelbauwe, Archt., Aztec Bldg., San Antonio. 10-18

W. Va., East Bank—Cabin Creek Dist. Bd. of Education, O. J. Jenkins, Pres., let contract at \$51,900 to George Morris for \$80,000, 2-story, 132x68 ft., brick and tile high school; 4-ply built-up roof, brick foundation; Warner, Tucker, Silling & Hutchinson, Archts., Masonic Temple, Charleston; J. G. Aurille, Engr., East Bank. See Want Section—Building Material and Equipment. 10-4

Stores

Ala., Birmingham—Jemison & Co., Agts., 221 N. 21st St., for Mrs. Catherine Pretline,

New York, and Mrs. Jennie Wright, Montreal, Canada, erecting \$40,000, 8-story building, 19th St. and First Ave.; D. O. Whilldin, Archt., 515 N. 21st St.

Fla., Miami—Bessie N. Gillette, 369 Lexington Ave., New York, let contract at \$10,000 to R. G. Witters Co., 1735 S. W. 6th St., for 1-story, 40x100 ft. store, 839 W. Flagler St.; 4-ply built-up roof, wood and cement floors; Nieder & Sellar, Archts., 321 Calumet Bldg. 10-25

Fla., West Palm Beach—Fein's Department Store, 306 Clematis St., remodeling 5-story building, Olive Ave. and Clematis St., for department store to be in conjunction with Clematis emporium.

Ga., Atlanta—Shelverton & Nonnemaker, Bona Allen Bldg., have contract for interior and exterior remodeling 4-story brick and conc. store on Peachtree St. to be occupied by Hart, Schafner & Marx; Pringle & Smith, Archts., Norris Bldg.

Ga., Atlanta—Charles Petetrets started work on 3-story, 62x58-ft., brick and cinder tile store; stone foundation, tar and gravel roof; G. R. Bond, Archt.-Contr., Fourth Natl. Bk. Bldg. 10-25

Mo., Mexico—Greater Mexico Realty Co., W. W. Pollock, Pres., started work on 2-story 50x114-ft. store, Jackson and Jefferson Sts., to be leased to Montgomery Ward & Co., Chicago; McCarthy Brothers Construction Co., 4908 Delmar St., Contr.; Bonsack & Pearce, Archts., 411 Olive St., St. Louis. See Want Section—Building Material and Equipment.

Mo., St. Louis—J. Lutter, 4540 Gravois Ave., erect \$20,000, 2-story, 50x125 ft., brick store and tenement, 4251-53 Winona St.; Arsenal-Watson Co., Archts.-Bldrs., 6205 Arsenal St.

Mo., St. Louis—S. Goldstein, Castlereigh Apts., has permit for \$75,000, 3-story, 126x47-ft. brick store and apartment, 1964-76 Hodlamont St.; comp. roof; B. Shapiro, Bldr., Syndicate Trust Bldg.; S. Abrahams & Son, Archt., 1124 Chemical Bldg.

Tenn., Memphis—Mary F. Treadwell let contract to J. E. Faires, 63 S. Third St., for \$35,000, 3-story and basement brick store;

Hanker & Cairns, Archts., 123 S. Court St. 10-18

Tex., Lufkin—M. M. Jones started work on 25x140 ft. brick, fireproof store to be leased to Lufkin Furniture Co.; Campbell & White, Contrs.

W. Va., Parkersburg—Patrick J. McDonough has permit for \$20,000, 2-story, 46x75 ft., brick and tile store and apartment, Dudley Ave. and 20th St.; Edward Vogel, Contr.; Harry R. Nay, Archt.

Theaters

Fla., Coral Gables, Br. Miami—C. A. Taylor, 227 N. W. 22nd Lane, Miami, has permit to repair theater, 2110-16 Ponce de Leon Blvd., for Coral Gables Theater Corp; \$15,000.

Miss., Biloxi—American Seating Co., 14'E. Jackson St., Chicago, has contract for seating in \$100,000 Saenger Theater under construction; Arthur F. Berry, Contr.; Roy A. Benjamin, Archt., both Bisbee Bldg., Jacksonville, Fla. 6-28

Miss., Blue Mountain—E. L. Godwin let contract to W. L. Robertson for Blue Mountain Theater; brick.

Tex., Dallas—A. M. Kahn, 2734 S. Blvd., started work on \$12,000, 1-story, 50x140-ft., hollow tile and brick moving picture theater; tar and gravel roof; A. D. Clark, Engr.-Contr., 4835 E. Grand St.; C. H. Griesenbeck, Archt., Const. Industries Bldg. 10-25

Warehouses

Mo., St. Louis—Laclede Steel Co., Arcade Bldg., has contract for 200 tons rein. steel for \$300,000 office and warehouse for N. O. Nelson Manufacturing Co., 928 Chestnut St.; Preston J. Bradshaw, Archt., 718 Locust St. 10-25

N. C., Charlotte—Southeastern Construction Co., 210 W. Second St., has permit to erect \$15,000, 30x100-ft. brick warehouse on Seaboard Air Line Rwy. tracks; L. C. Ellis, Archt.

THE CLASSIFICATIONS IN THIS SECTION ARE:

WANT SECTION

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Boiler.—Gilbert D. Von Phul (Mchy. Dealer), Patrick and St. Louis Sts., P. O. Box 1166, New Orleans, La.—Wants Babcock and Wilcox water tube boilers, steel headers, horizontal tubes, units 300 and 600 hp.

Crane (Gas Operated).—W. J. Hicklin, South Jacksonville, Fla.—Wants prices and data on gas operated crawler mounted crane with clam shell and preferably with skimmer attachments; state condition, location, make, model, and serial number.

Generator Set.—Seyler Lumber Co., Bluefield, W. Va.—Wants steam turbine generator set that will develop 300 to 600 kw.; AC 3 phase, 60 cycles, 220 volts.

Knitting Machines.—B. R. Cooner, 8 Commodore Apartment, Asheville, N. C.—Wants prices and data on hosiery knitting machines.

Locomotive (Fordson).—R. P. Johnson (Mchy. Dealers), Wytheville, Va.—Wants Fordson locomotive for steel rail.

Plate Rails.—W. M. Smith & Co., Fort Sumter Hotel, Charleston, S. C.—Wants set of 28 or 30 ft. plate rails, used equipment.

Potato Slicing Machine.—J. M. Torrence, Box 328, Bessemer City, N. C.—Wants small machine for chipping or slicing potatoes suitable for potato chips; either hand or power operated, preferably with 4 knives.

Sweet Potato Curing Plant Equipment.—Elmer V. Jesse, Mangum, Okla.—Wants prices and data on sweet potato curing plant equipment.

Tractor.—R. P. Johnson (Mchy. Dealers), Wytheville, Va.—Wants prices and data on second hand crawler type tractor, 5 ton, Best or Holt preferred.

McCloskey Torch Co., Toledo, Ohio—Wants prices and data on machine for weaving cotton wicks.

Polk City Lumber & Supply Co., Polk City, Fla.—Wants prices on following:

- (1) Moulder
- (2) Planer (small).

Robt. L. Coore, Archt., 4205 N. Market St., St. Louis, Mo.—Wants prices on following:

- (1) Drill Presses
- (2) Lathes—steel and iron
- (3) Woodworking Machinery.

Miscellaneous.

Metal Novelties.—J. P. Doughty, Jr., Augusta, Ga.—Wants to correspond with manufacturers of metal novelties.

Gastonia Gasket Mfg. Co., 118 Page St., Gastonia, N. C.—Wants prices and data on following:

- (1) Gasket Coverings
- (2) Hardware—casket and shell
- (3) Trimmings—silk, etc.
- (4) Plushes.

American Chamber of Commerce of Sao Paulo, Brasil.—Have inquiries from two firms who desire to represent manufacturers of cotton yarn, also textiles, hosiery and underwear.

Building Material and Equipment.

Albert L. Randall, Contr., Amarillo Bldg., Amarillo, Tex., wants prices on following for \$150,000 office bldg., Big Spring, Tex.:

- Mail Chutes
- Metal Doors
- Steel Sash and Trim
- Tile—gypsum.

A. Ten Eyck Brown, Archt., Forsyth Bldg., Atlanta, Ga., wants prices on following for \$80,000 warehouse for King Holding Co.:

- Elevators
- Limestone
- Metal doors
- Roofing (flat)—built-up
- Sprinklers
- Steel sash and trim
- Vaults
- Wire glass

Frank J. Trammell, Martinsburg, W. Va., wants prices on following for office building:

- Counter Height Files and Partitions
- Flooring—linoleum, composition
- Lighting Fixtures
- Mail Chutes.

J. G. Aurille, Engr., East Bank, W. Va., wants prices on following for \$80,000 high school:

- Flooring—terrazzo, tile
- Roofing—built-up
- Ventilators.

Estes W. Mann, Archt., Cotton Exch. Bldg., Memphis, Tenn., wants prices on following for \$26,000 office bldg., West Memphis, Ark.:

- Flooring—hardwood, terrazzo, tile
- Limestone
- Roofing—asphalt shingle
- Vaults.

H. H. Brown, Contr., 102 E. Troy St., Dothan, Ala., wants prices on oak and tile flooring for dwelling.

Jos. W. Northrop, Jr., Archt., Kirby Bldg., Houston, Tex., wants prices on following for garage:

- Metal Ceilings
- Roofing (Flat)—built-up
- Steel Sash and Trim
- Tile—hollow
- Ventilators
- Wire Glass.

Bert D. Keck, Archt., P. O. Box 1157, Stuart, Fla.—Wants data and prices on following for \$150,000 3-story courthouse:

Brass and Bronze Work
Cast Stone
Courtroom Seats, Desks and Chairs
Elevator (automatic)—travel 22.8 ft., car platform 5.6x5.4 ft., capacity 2250 lb., about 100 ft. per minute, 220 volt, 3 phase, 3 wire, 60 cycles a.c.
Elevator Doors
Flooring—hardwood, terrazzo, tile composition.
Furniture, including book cases, filing cabinets, desks, etc.
Incinerator (built-in)—to take care of 70 people

Limestone
Metal Doors
Plaster Board
Roofing (flat)—built-up
Stairs (spiral)—iron, 11.4 ft., travel, 60-inch diameter
Steel Sash and Trim
Steam Heating System (courthouse and jail)—boiler burner, steam boiler, hot water heater and tank, with steam coil, etc.
Sterilizer—to take care of 60 prisoners
Tile—gypsum
Vaults
Vault Doors
Ventilators
Wire Glass.

Will N. Noonan Co., Archt., Bldrs. Exch. Bldg., San Antonio, Tex., wants prices on following for \$15,000 church, Junction, Tex.:

Cast stone.
Metal Ceilings.
J. M. Spain, Archt., Millsaps Bldg., Jackson, Miss., wants prices on following for dwelling:
Flooring—hardwood, tile
Roofing—tile.

Robt. L. Coore, Archt., 4205 N. Market St., St. Louis, Mo., wants prices on all building material and supplies; also desires catalogs and plan books and manufacturers' samples.

A. N. Canton, Box 1268, Atlanta, Ga., want prices on following for 3-story store:

Electric Refrigerators
Roofing—composition.
Cast Stone
Flooring—linoleum
Metal Ceilings
Roofing—built-up
Steel Sash and Trim
Ventilators.

Bonsack & Pearce, Inc., Archts., 4110 Olive St., St. Louis, Mo., wants prices on following for \$60,000 store for Greater Mexico Realty Co., Mexico, Mo.:

Cast Stone
Elevators
Flooring—maple
Roofing—built-up.

W. N. Thompson, Archt., 430 Loren St., Springfield, Mo., wants prices on following for \$9000 church:

Cast Stone
Limestone
Metal Ceilings
Roofing—asphalt shingle.

Bids Asked

Bridges, etc.—Anderson, Tex.—Bids for bridge and culvert. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Pensacola, Fla. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—Selmer, Tenn. See Construction News—Bridges, Culverts, Viaducts.

Die Castings.—Chemical Warfare Service, Edgewood Arsenal, Md.—Bids Nov. 5 for 10,000 aluminum die castings, angle tubes.

Electrical Supplies.—Post Quartermaster, Marine Barracks, Paris Island, S. C.—Bids Nov. 12 for 2000 ft. cord wire, 500 terminals, 100 ft. fish wire, 900 links, 200 reflectors, 6 radio tubes, 12 batteries, 20,000 ft. wire.

Heating Appliances, etc.—Adams County Bd. of Supervisors, W. H. Hale, Clk., Natchez, Miss.—Bids Nov. 6 for furnishing county jail and courthouse with heating appliances and auxiliary equipment.

Fuel Oil.—A. L. Flint, Gen. Pur. Officer, Panama Canal, Washington, D. C.—Bids Nov. 21 for fuel oil for period beginning Jan. 1, 1920, and ending Dec. 31, 1920; Sch. 1914.

Grader.—Dallas County, Chas. E. Gross, Auditor, Dallas, Tex.—Bids Nov. 12 for one or more 8-ft. graders for Comms. Dist. No. 3.

Ice Machine and Manual Training Equipment.—Adams County Bd. of Supervisors, W. H. Hale, Clk., Natchez, Miss.—Bids Nov. 6 for furnishing 2-ton ice machine and manual training equipment in Industrial Training School, Columbia, Miss.; specifications, etc., from Vinson B. Smith, Jr., Archt., Real Estate Bldg., Gulfport, Miss.

Miscellaneous Supplies.—A. L. Flint, Gen. Pur. Officer, Panama Canal, Washington, D. C.—Bids Nov. 21 for following: Sch. 1915:

Truck chassis, fire engine, electric motors, filing machine, pumps, cable wire, transformers, reflectors, switches, range boilers, track spikes, scoop shovels, oars, etc.

Miscellaneous Supplies.—A. L. Flint, Gen. Pur. Officer, Panama Canal, Washington, D. C.—Bids Nov. 7 for following: Sch. 2648:

Wheelbarrows, forges, band saws, drill chucks, drinking fountains, pumps, sheet copper, tiller rope, armored cable, insulated wire welding rods, pipe hangers, flexible steel tubing, etc.

Paints, etc.—State Bd. of Control, Austin, Tex.—Bids Nov. 5 for 10,500 gal. lithophone paint, 4000 gal. red lead bridge paint, 2700 gal. battleship grey equipment paint, 200 lb. of aluminum powder, 4600 gal. long spar varnish, 4150 gal. raw linseed oil.

Paving, etc.—Rockdale, Tex. See Construction News—Roads, Streets, Paving.

Paving, etc.—Montgomery, Ala. See Construction News—Roads, Streets, Paving.

Paving, etc.—Natchitoches, La. See Construction News—Roads, Streets, Paving.

Paving, etc.—Magnolia, Ark. See Construction News—Roads, Streets, Paving.

Paints, etc.—State Bd. of Control, R. I. Tennant, Austin, Tex.—Bids Nov. 5 for guard rail, bridge and equipment paints: 10,500 gal. lithophone paint, 4000 gal. red lead bridge paint, 2700 gal. battleship grey equipment paint; 9,200 lb. aluminum powder, 4,600 gal. long spar varnish, 4,150 gal. raw linseed oil.

Pipe (Vitrified)—See Sewers.

Roads.—State of Texas—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Road.—Albany, Tex. See Construction News—Roads, Streets, Paving.

Road.—Benton, La. See Construction News—Roads, Streets, Paving.

Road.—Raleigh, Miss. See Construction News—Roads, Streets, Paving.

Road.—Edinburg, Tex. See Construction News—Roads, Streets, Paving.

Roads.—State of Virginia. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Virginia. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Screws.—Pur. Agt., P. O. Dept., Washington, D. C.—Bids Nov. 7 for 1000 gross of wood screws.

Sewers.—City of Meridian, Miss. W. H. White, Clk.—Bids Nov. 6 for sanitary sewer lateral lines; John C. Watts, Engr.

Sewers.—Bd. of Awards, Baltimore, Md.—Bids Nov. 7 for sanitary sewers and storm drains in sewer districts 47 and 49, Storm Water Cont. No. 121; work includes semi-elliptical brick and conc. drain, rectangular section brick and conc. drain, vit. ippe sewer, underdrain, etc.; includes brick and conc. drain, rein. con. pipe drain, vit. pipe drain, vit. sewer pipe and drain manholes, etc.; Milton J. Ruark, Sewerage Engr.

Street.—Holly Springs, Miss. See Construction News—Roads, Streets, Paving.

Street.—Bradenton, Fla. See Construction News—Roads, Streets, Paving.

Street.—Leesville, S. C. See Construction News—Roads, Streets, Paving.

Street.—Huntington, W. Va. See Construction News—Roads, Streets, Paving.

Street.—Charlotte, N. C. See Construction News—Roads, Streets, Paving.

Street.—Lake Charles, La. See Construction News—Roads, Streets, Paving.

Tin.—Chemical Warfare Service, Edgewood Arsenal, Md.—Bids Nov. 7 for 4700 sheets perforated tin.

Tin Plate.—Chemical Warfare Service, Edgewood Arsenal, Md.—Bids Nov. 7 for 29,120 sheets coke tin plate.

Valves.—Quartermaster Supply Officer, Fort Sam Houston, Tex.—Bids Nov. 6 for 221 Sloan type of flush valves.

Wire Cloth.—Chemical Warfare Service, Edgewood Arsenal, Md.—Bids Nov. 7 for 6200 sq. ft. wire cloth.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Large Steel Erecting Contract.

Naill & Naill, steel erectors, Knoxville, Tenn., are engaged in placing 12,000 feet of steel lining in tunnels in connection with the Pigeon River power project of the Carolina Power & Light Co., Raleigh. The Pigeon River Tunnel Co., Paterson, N. J., are general contractors for the tunnel. In addition to the steel work, the job will include a 40-foot underground casing and a surge tank 173 feet high. The company, composed of George W. and Albert L. Naill, has opened permanent headquarters in the Briscoe Building, Knoxville, and plans to specialize on steel erection work throughout the South. The company erected the steel on the Burwell Building, the News Sentinel office building, the Farragut Garage, and now has contract to erect steel on the Holston National Bank Building, the chemical building at the University of Tennessee and the Cherokee Motor Company's garage.

Architectural Engineers Combine.

The business activities of S. C. Bloom and Charles F. Kamrath have been brought together in Chicago to conduct a consulting and architectural engineering business, each having specialized in refrigeration and air conditioning practices in engineering and architecture. The new concern will be known as Bloom & Kamrath, with offices in the Monadnock Block, 330 South Dearborn street, and is equipped to design plants and systems for buildings of all descriptions.

The Bolt and Nut Industry.

"Bolts, nuts and related products are such commonplace articles that it is almost instinctive to feel that the subject of their manufacture is of little interest, particularly to the layman," said George A. Richardson of the Bethlehem Steel Company in a recent article, and added: "It will probably surprise many to learn that at the Lebanon plant of our company more than 3000 sizes and types of bolts and nuts are regularly carried in stock. From 8 to 16 or 20 distinct operations are involved in completing any single item, and each operation involves the use of special machines of various designs, size ranges and capacities."

Thew Shovel Salesmen.

Due to a 62 per cent increase in Lorain-75 sales of the Thew Shovel Company, Lorain, Ohio, they have added the following men to their sales force: J. H. Devine, Chicago office; A. L. McLain, Dallas, Texas; G. D. Laurell, with residence at Alcoa, Tenn., at Atlanta. Also H. S. Beale will be located at the New York office, R. S. Delp at Philadelphia and Malcom Jones at Chicago. Following is a list of new representatives which will have the sales and service representation in their respective territories: Southern Tractor Company, Montgomery, Ala.; North Carolina Equipment Co., Raleigh, N. C.; Hall Perry Machinery Co., Butte, Mont.; Paragon Supplies, Ltd., Vancouver, B. C.; Jennison Machinery Co., San Francisco, Cal.; R. G. Moeller Co., Detroit, Mich.

Reorganization in Westinghouse.

Creation of a works standards division, consolidated with the employee service department, is announced by J. M. Hipple, East Pittsburgh works manager of the Westinghouse Electric & Manufacturing Company. C. B. Auel is now manager of the employee service and works standard department and L. H. Schumacher of the standards division of the new department. The two inspection departments formerly operated in East Pittsburgh have been combined into one, the inspection and test department, with G. W. Goebel as superintendent.

Gypsum District Sales Offices.

District sales offices have been established by the United States Gypsum Company at Atlanta, Memphis, St. Louis and Dallas. The Atlanta office is at 1510 Candler Building, in charge of J. B. McCorkle; Memphis, 1500 Bank of Commerce Building, in charge of Frank Miller; St. Louis office, 1201 Syndicate Trust Building, in charge of R. E. Sherer; Dallas, Santa Fe Building, in charge of C. D. Hausner. The company operates Southern manufacturing plants at Plasterco, Va.; Southard, Okla.; El Dorado, Okla., and Sweetwater, Texas.

"Selling the Millions."

Some idea of the extent to which "it pays to advertise" is given in a brochure, "Selling the Millions," by William L. Ninabuck, in charge of display advertising of the International Harvester Company, Chicago, issued by that corporation. "The manufacture of good will is vital to the business," is the caption of one chapter, and "the non-advertiser is the man who pays for advertising," it is said in another chapter. The booklet is interesting and important in its line.

Southern Ice Balance Sheet.

Southern Ice and Utilities Company's balance sheet as of August 31 shows current assets of \$1,474,262, including \$624,936 cash, compared with current liabilities of \$343,490, or net current assets of \$1,130,771. The company reports that October temperatures in its territory (Texas, Oklahoma, Arkansas and Louisiana) have been favorable. In the week ended October 13 the total tonnage sold was 100 per cent above that for the week ended October 15, 1927.

Bethlehem Steel Appointment.

The Bethlehem Steel Company announces that R. J. McIntosh has been appointed manager of the steel piling department, in charge of engineering and sales, with offices at Bethlehem, Pa.

The Port of Galveston.

Modestly described as a "handbook of information," a brochure issued by the Galveston (Tex.) Chamber of Commerce, "The Port of Galveston," is an attractive booklet of real interest, as well as great informative value. Achievements and opportunities are detailed, and wharfage and rail terminal facilities, coal and oil bunkering, drydocks and marine repair plants and many other features are described in both word and illustrations.

Spray-Painting Outfit.

The new DeVilbiss type TZ spray-painting outfit is said by the DeVilbiss Company, Toledo, Ohio, to handle successfully all the modern lacquers, as well as paints, varnishes, enamels, stains, shellacs and bronzes. Further it is useful for coating or touching up automobiles, furniture, refrigerators, woodwork and metal articles.

New Buhl Compressor.

Announcement is made of a prospective addition of new and larger sizes of portable compressors manufactured by the Buhl Company, Chicago. The company says it then will have a complete line of portable compressors from a 30-foot to 330-foot size. Dealer announcements will be made after the Road Show to be held in Cleveland in January.

Trade Literature

Explosives.—Two attractive pamphlets have been issued by the Hercules Powder Company, Inc., Wilmington, Del., entitled "Blasting Supplies" and "High Explosives and Blasting Powder." They describe various products of the company and list distributing points, also give the names of publications on the general subject and its subdivisions. Agricultural and other industrial booklets by the company are indexed.

Equipment for Buildings.—Of the many building equipment products of the Worthington Pump & Machinery Corporation, New York City, power-plant apparatus is virtually the only one not described in its bulletin, WP-1003, the power equipment being found in HO-1900. Electrical pumps for heating systems, sump pumps, pumps for swimming pools and for ventilating systems, cold water and other meters and refrigerating are some of the features of WP-1003; there are numerous illustrations.

Tools.—Price supplement No. 27-B to the small tool catalog of Joseph T. Ryerson & Son, Inc., is being distributed by the Jersey City, N. J., office of that concern, together with a list of new additions to its line of small tools and equipment. Detailed attention is given to the Millers Falls portable electric drills and electric grinders, a unishear portable electric cutter, portable hydraulic punch and one-ton adjustable I-beam trolleys, while other articles also are mentioned.

Steel Partition.—Outstanding features of the line of steel partition made by the Globe-Wernicke Company, Cincinnati, Ohio, are their Steelpact panels, consisting of a central core of Celotex, to which are secured stretcher-leveled steel sheets. Bulletin D shows partitions fitted to any space by combinations of posts and panels with double steel top and end fillers adjoining side walls and cornices, and many other features, together with architectural data.

Hoists.—Supplementary to the smaller Sullivan electric and compressed air Turbinair models are Sullivan electric portable hoists manufactured by the Sullivan Machinery Company, Chicago, and described in bulletin 76-J of that concern. The bulletin covers hoists from 10 to 35 horsepower, in both single and double drum patterns, the double drum hoist being especially serviceable for scraper loading.

Conveyors.—Many phases and varied apparatus in monorail conveying systems are depicted in catalog 56, Monorail Conveying Systems, issued by the Reading Chain & Block Corporation, Reading, Pa. Multiple gear chain hoists, screw geared hoists, tongue switches, bending curves, trackage assembly and electrification and motor-driven trolleys are a few of the features described in words and illustrations, with diagrams.

Nurseries.—Trade List No. 41 has been issued by the Forest Nursery Company, Inc., McMinnville, Tenn., grower and dealer in forest and shade trees, flowering shrubs, evergreens, vines, bulbs, etc. The list is a complete catalog, with prices; in it the statement is made that the company usually begins digging and shipping late in October and continues through the winter to the end of April.

Sheet and Tin Plate.—Announcement of a simplified branding practice is made by the American Sheet and Tin Plate Company, Pittsburgh, Pa., which has issued a descriptive sheet for the information of buyers and users of its products. One brand designates copper steel sheets and another is a new single brand for all sheet steel products.

New 200-Mile Texas Rail Line to Open.

Plainview, Tex.—November 24 has been selected as the date for the formal opening of 202 miles of new railroad completed in the South Plains of Texas by the Denver and South Plains Railway, a subsidiary of the Chicago, Burlington and Quincy Railroad Company, according to Frank E. Clarity, vice-president and general manager of the new line. Division headquarters will be located at Childress, where intersection is made with the main line of the Fort Worth and Denver City Railroad Company. Passenger and freight traffic will be inaugurated between Dallas and other towns on the line, including Plainview, Lubbock and Dimmitt. The cost of the road was \$7,000,000 exclusive of rolling stock.

Water and Light Plants for Somerset, Ky.

Beecher Smith of Somerset, Ky., has acquired 20-year franchises for the erection and operation of water and light plants at Somerset, construction to be completed within 24 months. The town contains about 9000 inhabitants and it is Mr. Smith's intention to proceed immediately to get estimates on electrical and water appliances and for the construction of both plants.

The city council of Poplar Bluff, Mo., will call an election about December 15 on a bond issue of \$225,000 for waterworks improvements, including a new filtration plant, additional water tower and installation of meters.

FINANCIAL NEWS

Bond Issues Proposed

Ala., Montgomery—Bridge—Alabama State Bridge Corp., Woolsey Finnell, Pres., receives bids Dec. 1 for \$5,000,000, \$1,000 denom., not to exceed 6% bonds.

Ark., Paris—Electric—City voted \$50,000 bonds. 9-20

Ark., Rogers—City Hall, Fire Station—City, J. H. Rood, Mayor, votes Nov. 20 on bonds. 10-11

Fla., Bronson—Road—Levy County Commrs. receive bids on or before Nov. 15 for \$575,000 bonds. Lately noted bids Oct. 30. 10-18

Fla., Gainesville—Road—Alachua County receives bids soon for \$250,000 bonds.

Fla., Jacksonville—City Comm., M. W. Bishop, Sec., plans \$2,050,000 bond election: \$300,000, paving; \$1,500,000, sewer extension; \$250,000, street widening; W. E. Shedd, City Engr.

Fla., Manatee—Refund—City Council plans \$61,900 bond issue.

Fla., Monticello—Road—Jefferson County Commrs., J. W. Garwood, Clk., receives bids Nov. 7 for \$100,000 5% \$1000 denom. bonds.

Fla., Panama City—Bay County, Special Tax School Dist. No. 13, votes Nov. 3 on \$50,000 6% \$500 denom. bonds.

Ga., Cochran—Cary Consolidated School Dist. voted \$15,000 bonds.

Ga., Fayetteville—C. T. Woolsey, Sec.-Treas., Fayette County, Woolsey Consolidated School Dist., receives bids Nov. 5 for \$10,000 bonds.

Kentucky—Road, Bridge—State Highway Commn., Frankfort, receives bids Nov. 28 for \$25,000,000 \$500 and \$1000 denom., not to exceed 6% bonds, including \$16,725,000 to build bridges and \$1,625,000 to purchase bridges; J. S. Watkins, State Highway Engr. 10-25

Ky., Ashland—Sewer—City, H. L. Carroll, Clk., votes Nov. 6 on \$400,000 bonds.

Ky., Catlettsburg—Court house, Jail—Boyd County, R. C. Mills, Sheriff, votes Nov. 6 on \$300,000 bonds.

Ky., Danville—City votes Nov. 6 on \$35,000 for sewer, water and storage warehouse.

Ky., Louisville—City Commrs. of Sinking Fund, L. D. Baldauf, Treas.-Sec., receive bids Nov. 13 for \$1,250,000 4 to 4½% bonds.

Ky., New Castle—School—Bd. of Education, Mrs. Lucy L. Smith, Sec., receives bids Nov. 5 for \$28,000 bonds.

Ky., Shelbyville—School—City, C. P. Hall, Mayor, and Shelby County, votes Nov. 20 on \$150,000 Shelby Graded School Dist. bonds.

La., Calvin—Calvin School Dist., Winn Parish, votes Nov. 27 on \$55,000, not to exceed 6% bonds.

La., New Orleans—Tygart School Dist. votes soon on \$100,000 bonds.

Md., Salisbury—School, Road—Wicomico County votes Nov. 6 on \$1,000,000 bonds; Horace M. Clark, County Roads Engr.

N. C., Charlotte—Incinerator—City, Marion Redd, Mayor, considering \$180,000 to \$190,000 bond sale. 10-18

N. C., Chadbourn—Street—Town, R. Inman, Clk., receives bids Nov. 19 for \$25,000 6% \$1000 denom. bonds. 10-18

N. C., Charlotte—School—City considering about \$1,000,000 bond issue; H. P. Harding, Supt. of Schools.

N. C., Goldsboro—City, Bd. of Aldermen, will issue \$100,000 bonds for white way, paving, water, sewer extension and improvement.

N. C., Graham—Highway, Bridge, Culvert—Alamance County Commrs. authorized \$45,000 bond issue.

Okla., Cordell—Airport—City considering \$50,000 bond election soon.

Okla., Muskogee—Gas Plant—City defeated \$1,250,000 bond issue. 8-23

Okla., Norman—Public Library—City plans voting on \$25,000 bonds.

Tenn., Lebanon—Road—Wilson County, F. M. McDaniel, Clk., votes Nov. 30 on \$500,000 5% bonds.

Tenn., Memphis—City, D. C. Miller, Clk., receives bids Dec. 4 for \$250,000 Street Improvement Assessment bonds.

Tenn., Selmer—Water—City votes early in Nov. on \$70,000 bonds.

Tenn., Springfield—Courthouse—Robertson County Court, J. S. Bartlett, Chmn., Bldg.

Committee, contemplates \$75,000 bond issue.

Tex., Abilene—City votes Nov. 17 on \$575,000 bonds: \$350,000 water; \$100,000, street; \$125,000 schools.

Tex., Alpine—Refunding—City voted \$126,500 water and sewer bonds. 10-4

Tex., Beaumont—Tuberculosis Hospital—Jefferson County Commn. may receive bids Nov. 5 for \$75,000 bonds. 9-20

Tex., Brownsville—Irrigation—Cameron County Water Improvement Dist. No. 10, plans selling in near future, \$685,000 bonds. 10-18

Tex., Brownwood—Brown County Water Improvement Dist. No. 1, votes Dec. 4 on \$2,000,000 to \$2,500,000 bonds to build dam and reservoir on Pecan Bayou and Jim Ned Creek. 9-6

Tex., Comanche—Paving—City votes Nov. 20 on \$50,000 bonds.

Tex., Follett—Water—City, S. F. Hanson, Mayor, votes in Jan., 1929, on \$35,000 bonds.

Tex., Freeport—Freeport Independent School Dist. voted \$100,000 bonds; J. E. Reed, Sec. of Board. 10-11

Tex., Galveston—Galveston County, E. B. Holman, Judge, considering \$775,000 bond election before Jan. 1, 1929: \$600,000, road; \$100,000, ferry landings; \$75,000, court appeals building.

Tex., Granger—Water—City voted \$60,000 bonds. 10-27

Tex., Henrietta—Dean Dale School Dist., Clay County, voted \$12,500 bonds.

Tex., Ingleside—Drainage—City officials and Humble Oil & Refining Co. interested in formation of drainage district; \$25,000 bond issue proposed; survey made.

Tex., Jacksonville—City voted \$250,000 bonds: \$75,000, city hall; \$75,000, water and sewer extension; \$100,000, paving. 9-27

Tex., Livingston—Road—Polk County, Road Dist. No. 1, voted \$125,000 bonds. 9-27

Tex., Lockhart—Road—Caldwell County voted \$430,000 bonds: \$150,000, Luling Precinct: \$280,000, Fentress-Martindale Precinct. 10-4

Tex., Mission—Geo. Wolfram, Sec. Bd. of Trustees, Mission Independent School Dist., Hidalgo County, receives bids Nov. 10 for \$30,000, 5%, \$500 denom. bonds. 9-20

Tex., Monahans—Water—City votes Nov. 3 on \$45,000 bonds.

Tex., Port Neches—Port Neches Common School Dist., Jefferson County, votes Nov. 24 on \$50,000 bonds; B. B. Johnson, County Judge, Beaumont.

Tex., Runge—Paving—City plans bond election.

Tex., San Antonio—Municipal Improvement—City, C. H. Chambers, Mayor, receives bids Nov. 19 for \$4,755,000, 4½% bonds.

Tex., San Antonio—School—City considering voting on over \$2,000,000 bonds; Marshall Johnston, Supt. of Schools.

Tex., San Juan—Bd. of Dir. Hidalgo County Water Improvement Dist. No. 2, Clay Everhard, Pres., rejected bids for \$1,000,000 6% irrigation bonds. 10-4

Tex., Sinton—San Patricio County, Road Dist. No. 3, votes Nov. 10 on \$200,000 bonds.

Tex., Uvalde—City votes Nov. 12 on \$200,000 bonds: \$125,000, purchase water works; \$75,000, extend mains and improve system.

Tex., Wellington—Road—Collingsworth County votes Nov. 24 on \$400,000 bonds.

Va., Burkeville—Water, Sewer—City contemplates bond issue; J. B. McCrary Engineering Corp., Citizens Savings Bank Bldg., Atlanta, Ga.

Va., Chatham—City, W. M. Tredway, Jr., Clk.-Treas., receives bids Nov. 27 for \$30,000 bonds: \$20,000, street; \$10,000, sewer.

W. Va., St. Marys—Pleasants County, Grant Road Dist., votes Nov. 6 on \$65,000 bonds.

Bond Issues Sold

Ala., Birmingham—Public Improvement—City Comm., Eunice Hewes, Clk., sold \$432,000, 4½% bonds to Steiner Brothers, Birmingham, \$433,550. 9-27

Ark., Hot Springs—City, Fred Fowler, Clk., sold \$84,000, 5% street cleaning and fire fighting equipment bonds to Mississippi Valley Trust Co., St. Louis; 100.33. 10-11

Fla., Daytona Beach—City, M. S. Couch, Clk., sold \$344,000 6% improvement bonds

to Brown-Crummer Co., Wichita, Kan., premium \$3500. 10-11

Ga., Dawson—Road—Terrell County sold \$56,000 5% \$1000 denom. bonds jointly to J. H. Hillsman & Co., Inc., 601 Atlanta Trust Bldg., Atlanta, and Citizens & Southern Co., Savannah.

La., St. Joseph—Road, Bridge—Tensas Parish Police Jury, F. H. Curry, Pres., sold \$200,000 5% \$1000 denom. Road Dist. No. 1 bonds to Rapides Bank & Trust Co. and L. E. French & Co., both Alexandria, and Whitney Central Trust & Savings Bank, New Orleans, par and accrued interest. 9-20

Miss., Holly Springs—Marshall County, J. T. Wade, Chancery Clk., sold \$100,000, 5¼%, \$1,000 denom. Barton and Byhalia Road Dist. bonds to Commerce Securities Co., Memphis, Tenn., par, accrued interest, expenses, \$875 premium. 10-18

Mo., Clayton—Road—St. Louis County, P. C. Deuser, Treas., sold \$800,000 4½% bonds to Eldredge & Co., New York, \$810,326. 9-27

Mo., St. Louis—Improvement—City sold \$10,000,000 4½% bonds to syndicate composed of Wm. R. Compton Co., St. Louis; Harris, Forbes & Co., White, Weld & Co., Stone & Webster and Blodgett, Inc., L. F. Rothschild & Co., all New York; Guardian Detroit Co., Inc., Detroit, Mich.; First Trust & Savings Bank and Illinois Merchants Trust Co., both Chicago, Ill.; Curtis & Sanger, Boston, Mass., at 100.6199. 9-20

N. C., Boone—Street—Town, A. Y. Howell, Clk., sold \$25,000 6% \$1000 denom. bonds to W. L. Slayton & Co., Toledo, Ohio, \$911 premium. 10-4

N. C., Concord—Public Improvement—City, B. E. Harris, Clk., sold \$85,000 5% bonds to N. S. Hill & Co., Cincinnati, Ohio, premium \$1836. 10-18

N. C., Gastonia—City, D. L. Struthers, Mgr., sold \$100,000 4¾% \$1000 denom. bonds to W. F. Shaffner & Co., Winston-Salem, \$710, premium: \$85,000, street; \$15,000 water. 10-18

Okla., Boise City—Park—First State Bank, Boise City, purchased \$10,000, 5½% coupon bonds at par.

Okla., Optima—School—American First Trust Co., Oklahoma City, purchased \$12,000 5 and 5¼% Texas County School Dist. No. 9 bonds at par.

Tex., Amarillo—Airport, etc.—City, Jeff D. Bartlett, Mgr., sold \$100,000 4½% bonds to Rippey & Taylor, Enkle Bldg., at par and accrued interest. 9-27

Tex., Balld—Courthouse—Callahan County Commrs. Court, S. E. Settle, Clk., sold \$125,000 5% \$1000 denom. bonds to Caldwell & Co., 400 Union St., Nashville, Tenn., par, accrued interest and \$3264 premium. 10-18

Tex., Hempstead—Road—Waller County Commrs. Court sold \$230,000 Dist. No. 1 bonds to Garrett & Co., American Exchange Bank Bldg., Dallas, for \$230,037.

W. Va., Martinsburg—State Compensation Bd. purchased \$125,000 5% Martinsburg Independent School Dist. bonds at par. 10-18

Building and Loan Associations

Tex., Corpus Christi—Corpus Christi Branch of International Guaranty Thrift Syndicate, organized; H. N. Carter, Chmn.; Dr. Irving Dietz, V-Chmn.; D. H. Best, Sec.-Treas.; operates as building and loan association.

New Financial Corporations

Ala., Birmingham—Reserve Sales Finance Co. chartered; S. E. Strickland, Pres.; A. C. Grundman, Sec.

Ark., Little Rock—Atlas Finance Co., 107 W. Third St., capital \$150,000, chartered; G. J. Blass, Pres.

Ky., Hazard—First National Bank, capital \$100,000 chartered; G. T. Howard, Pres.; Ed. S. Jones, Cashier.

La., Shreveport—Hughes Investment Co., Inc., capital \$150,000, chartered; James O. Hughes, V.-P., 145 Prospect Ave.

La., Shreveport—Wile-Levy Investment Co., Inc., capital \$40,000, chartered; I. E. Wile, Pres.; D. R. Sandefur, Sec.

N. C., Asheville—Empire Finance Corp., 412 Flatiron Bldg., authorized capital \$100,000, organized; Wm. A. Rawson, Pres.-Sec.

N. C., Greensboro—American National Corp., 109 Elm St., capital \$250,000, organized;

(Continued on page 106)

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FINANCIAL NEWS

(Continued from page 104)

R. G. Vaughn, Chmn. of Bd.; Alan T. Bowler, Pres.

N. C., Durham—Durham Finance & Mortgage Co., Geer Bldg., capital \$100,000, organized; H. W. Pickett, Pres., 2410 Church Hill Rd. 8-16

Tex., Dallas—Chamber of Commerce, M. J. Norrell, Gen. Mgr., considering organizing industrial finance corporation, with \$500,000 capital; Sam A. Leake interested.

Tex., Houston—Mortgage Investment Co., capital \$20,000, organized; Frank M. Gossett, 6021 Brady St.

Va., Petersburg—Merchantr' Finance Co., Inc., chartered; Wallace Groves, Pres., Citizens National Bank Bldg., Baltimore, Md.

Gibraltar Savings & Building Assn., I. Friedlander, Pres. and Gen. Mgr. Warwick Hotel Apts., Houston, Tex., increased capital \$60,000,000 to \$100,000,000.

Greater Louisville Savings & Building Assn., Louisville, Ky., plans increasing capital \$12,000,000 to \$14,000,000.

Book Reviews

Industrial Organization and Management, by William B. Cornell, professor of management, New York University, etc. New York: The Ronald Press Company. Cloth. Pp. 653. \$5.

Broad in its scope and reflecting, as it does, the most recent sound developments, this comprehensive book deals with the fundamental principles and practice of organization and management. To establish a background of business knowledge, Professor Cornell at the outset goes into recent trends in management, contrasting management before the world war with management today. The interdependence of business and management is shown, the overproduction and high wages and high costs engendered by the war are sketched and some of the more recent developments in manufacturing are taken up. With these and other introductory features set forth, the author considers the subject of Executives. The principles of organization, as Professor Cornell shows, involve such subheads as daily work of the sole proprietor, the presentation and application of principles, principles underlying any manufacturing organization and various phases of organization. "Organization," he says, "may be considered as the building and developing element, the structural element, and management as the directing, controlling and co-ordinating element. Organization means the structure or form of an enterprise

and the arrangement of all parts thereof in a suitable manner for use or service. It further includes laying out the score and functions of all parts, selecting the proper individuals to carry on the work and determining their duties, together with their relationships and contacts with one another." The writer then goes deeply into detail, and on an intricate and complicated subject gives many pages of interesting reading, valuable material for thought and study. Illustrations, diagrams, maps and tables go far in explanatory aid.

Marketing and Advertising; An Economic Appraisal. By Floyd L. Vaughan. Princeton, N. J.: University Press. Cloth. Pp. 255. \$2.50.

As professor of economics at the University of Oklahoma, Dr. Vaughan may be regarded as competent to speak on this important topic, and in so doing he follows a somewhat different line than that of the usual individualistic viewpoint. His aim, he explains, is "to appraise marketing and advertising from the social or public standpoint" and in his way "to present the causes of the advancing cost of marketing and to indicate the possibilities of improvement." Contributory to the greater cost of marketing, he finds several factors—higher quality, greater variety, prevalence of style, excessive emphasis of salesmanship, wider separation of production and consumption, disregard of cost, indirect subsidies, and each of these he takes up in detail. In much the same manner the "social cost of advertising" is dissected, other chapters being devoted to "The Utility of Advertising," "Acquisitive Practices," "Co-operation" and "Individual Initiative and Government Action." Particularly interesting is his conclusion on the utility of advertising, "that one should not generalize concerning the merits or demerits of advertising in its entirety," but that "advertisements must be examined on an individual, and not a collective, basis if one seeks a proper estimate of them," and he adds: "Dissociation from the 'atmosphere of selling' is the first prerequisite to an appreciation of the net worth or liability of advertising." Having shown various reasons which "lie behind the increasing proportion of the consumer's dollar now absorbed in marketing," Dr. Vaughan goes into "the possible means of reducing the cost of performing the marketing functions and of eliminating acquisitive practices," and says: "The agencies for providing remedies are co-operation, individual

initiative and Government action." Producers' co-operation, he finds, "usually ends in failure because the laborers who compose the membership do not realize the importance of management." Also, "there is a very limited field of usefulness for consumers' co-operation in the United States on account of the chain store and of certain characteristics of the people." The only form of co-operation of any great significance from the standpoint of either its present accomplishment or its future possibilities, Dr. Vaughan says, is the concerted action of farmers in the sale of their agricultural products. The book is of value as a thoughtful contribution to the study of a subject of importance to the people of the United States.

Trucks.—In a new folder the International Harvester Company, Chicago, treats of its Six-Speed Special, the latest addition to the International line of trucks, and illustrates its outstanding features. The new truck has six speeds forward and two in reverse; rated capacity one ton; four-cylinder engine, 3½-inch bore and 4½-inch stroke, the special equipment available being enclosed cab, nickel radiator, governor, water pump, combination grain and stock rack body and special bodies.

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WE finance cotton in warehouse
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76 William Street, New York

"The Early 1880's in Baltimore"

Southern men and women who lived in, or visited Baltimore in the period when this Company was established—which was the year of 1884—will be interested, we believe, in our anniversary book "The Early Eighties: Sidelights on the Baltimore of forty years ago." A copy will be sent upon request.

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Resources \$21,000,000 A. H. S. POST, Pres. F. G. BOYCE, Jr., Vice-Pres.

"THE ATMOSPHERE OF YOUR BANK"

said a customer recently, "is not cold, but radiates cheerfulness and helpfulness."

That is our aim. We are properly conservative, but we recognize the obligation resting upon all bankers to help meet deserving business requirements.

BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

26 South Street, Baltimore, Md.

Capital and Surplus \$1,350,000.00

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Whether Business Barometers Say "Fair" or "Cloudy"!

From time to time we have mentioned the importance of being connected with an *all weather* bank, that can be depended upon for loyalty under all conditions.

We believe this point is worth stressing. If you, too, feel that your business deserves and requires such a bank, we shall be glad to hear from you.

FIRST AND MERCHANTS National Bank of Richmond

John M. Miller, Jr., President

Capital and Surplus Six Million Dollars

Census of Lime Manufactures, 1927—83 Establishments Located in the South.

Establishments engaged primarily in the production of lime in 1927 reported to the Department of Commerce a total output valued at \$41,587,458, a decrease of 18 per cent as compared with \$50,736,499 reported for 1925, the last preceding census year. Quantities and values of the principal products for 1927 and 1925 are as follows: Quicklime, 1927, 2,287,177 tons, valued at \$20,919,127; 1925, 2,608,582 tons, valued at \$26,310,529; decrease in quantity, 12.3 per cent; decrease in value, 20.5 per cent. Hydrated lime, 1927, 1,461,654 tons, valued at \$14,055,374; 1925, 1,453,600 tons, valued at \$15,539,371; increase in quantity, six-tenths of 1 per cent; decrease in value, 9.5 per cent.

This industry designation is applied to establishments engaged in the production of lime, chiefly from limestone but to a small extent from shells and other substances. The quarrying and the burning of limestone are usually carried on by the same establishments, and for such establishments the statistics given cover both branches of the work. Establishments engaged exclusively in the quarrying of limestone, which is not a manufacturing operation, are not classified in this industry.

Of the 260 establishments reporting for 1927, 36 were located in Pennsylvania, 22 in Ohio, 22 in Virginia, 19 in Wisconsin, 12 in Missouri, 12 in New York, 10 in Alabama, 10 in California, 9 in Massachusetts, 9 in Tennessee, 8 each in Illinois, Michigan, Vermont and West Virginia, 7 in Maryland, 6 in Connecticut, 6 in Indiana, 5 in Maine, 5 in Utah, 5 in Washington, 4 in Texas, 3 in Arkansas, 3 in Colorado, 3 in Minnesota, 2 each in Florida, Iowa, Montana, New Jersey and North Carolina, and 1 each in Arizona, Georgia, Idaho, Kentucky, Nevada, New Mexico, Oklahoma, Rhode Island, South Carolina and South Dakota. In 1925 the industry was represented by 283 establishments, the decrease to 260 being the net result of a loss of 47 establishments and a gain of 24. Of the 47 establishments lost to the industry, 13 went out of business prior to 1927, 18 reported commodities other than lime as their principal products and were therefore transferred to the appropriate industries, 10 were idle throughout the year, and 6 reported products less than \$5000 in value. (No data are tabulated at the biennial censuses for establishments with products under \$5000 in value.)

SUMMARY FOR THE INDUSTRY, 1927 AND 1925.

	1927	1925	Per cent of de- crease (—)
Number of establishments.....	260	283	—8.1
Wage earners (average number)*	10,820	12,095	—10.5
Wages†	\$12,190,918	\$14,002,128	—12.9
Cost of materials, supplies, fuel and purchased power, total‡	\$17,269,467	\$20,049,363	—14.3
Materials and supplies.....	\$9,690,298	\$
Fuel and power.....	\$7,579,169	\$
Value of products§	\$41,587,458	\$50,736,499	—18.0
Value added by manufacture§	\$24,317,991	\$30,687,136	—20.8
Horsepower.....	83,361	87,871	—5.1

*Not including salaried employees.

†The amount of manufacturers' profits cannot be calculated from the census figures, for the reason that no data are collected in regard to a number of items of expense, such as interest on investment, rent, depreciation, taxes, insurance and advertising.

‡Not reported separately.

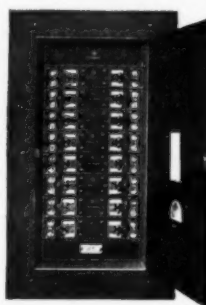
§Value of products less cost of materials, supplies, fuel and purchased power.

\$10,000,000 Bonds Sold by St. Louis.

St. Louis, Mo.—The City of St. Louis has sold \$10,000,000 4¼ per cent bonds at 100.6199, to a syndicate composed of William R. Compton Co., St. Louis; Harris, Forbes & Co., White, Weld & Co., Stone & Webster and Blodgett, Inc., and L. F. Rothschild & Co., all of New York; Guardian Detroit Co., Inc., Detroit, Mich.; First Trust & Savings Bank and Illinois Merchants Trust Co., both of Chicago, and Curtis & Sanger, Boston, Mass.

FA Service to Factory Electricians comprises an experienced sales engineer in each of thirty cities to aid you in solving many problems of switchboard and panelboard installations, together with prompt estimates giving the right price first and service as long as the job requires.

FA Service also provides steel cabinet stocks in Jobbing Houses all over the country and complete panelboard stocks in each of thirty district offices. Also local assembly and producing shops in twelve important territories.



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Chicago, Ill.	New Orleans, La.	Tulsa, Okla.
Cincinnati, Ohio	New York City	Toronto, Ont.
Dallas, Texas	Omaha, Neb.	Vancouver, B. C.
Denver, Colo.	Philadelphia, Pa.	Walkerville, Ont.
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KEEN competition is causing executives to take advantage of every opportunity that offers possibilities of cost savings, however remote those savings may seem.

Such an opportunity is offered you in the services of T. B. M. A. Packaging Engineers ... at absolutely no cost. It is a service which will prove whether there is a more economical, more convenient and equally safe container for your product.

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\$2,000,000 Railway Building Let to Contract.

Washington, D. C.—General contract for the erection of the new \$2,000,000 office building here for the Southern Railway System, Fairfax Harrison, president, has been awarded to the Consolidated Engineering Company, Baltimore. The structure, which will be located at 14th and K streets, northwest, will be 10 stories high, of brick. Waddy B. Wood, of this city, is the architect.

New Bids Invited on Sanatorium Buildings.

Sanatorium, Miss.—Bids received October 26 by the Mississippi Building Commission, Jackson, for several structures at the State Tuberculosis Sanatorium here, have been returned unopened and new bids will be opened November 22. Among the improvements contemplated, there will be a preventorium, recreation building, three dwellings, alterations to certain buildings, steam tunnels, farm buildings, water tank, garbage destroyer, power line for heating, plumbing, swimming pool, parkway and other facilities. Bem Price, Birmingham, Ala., is the architect and the cost is estimated at \$330,000. The following contractors are estimating: I. C. Garber, B. E. Walker Construction Co., W. J. McGee & Son, and Estes & Reed, all of Jackson; Beckelheimer & Small and Oden & Glenn, both of Hattiesburg, Miss.; L. W. Hancock Construction Co., Meridian, Miss.; J. F. Holley Construction Co. and the C. S. Kershaw Contracting Co., both of Birmingham; W. S. Rutter, Brookhaven, Miss., and Currie & Corley, of Jackson and Raleigh, Miss.

New Resort Hotel for Tennessee.

Details are being arranged for the construction of a resort hotel at Oliver Springs, Tenn., by the new Oliver Springs Hotel Company, incorporated with a capital stock of \$250,000 by General Harvey H. Hannah, Frank Ladd, Dr. J. T. Hayes and W. L. Foster of Oliver Springs, and H. L. Durell of Harriman, Tenn. Plans for the building are being prepared by Manley and Young of Knoxville and call for 125 rooms and baths with provision for mineral baths. The project will embrace not only the hotel but a spring house covering seven mineral springs. Two hundred acres of the property on which the hotel and spring house are located, will be set aside for a 9-hole golf course. The Tri-County National Bank of Oliver Springs has been named as trustee of the new company, for which a branch office will be maintained in Knoxville.

A Record Year for United States Exports.

American export trade, on the basis of the first nine months' figures, may become larger in volume this year than any previous year and larger in value than any year since 1921, says the National Foreign Trade Council, New York city, in a report on 1928 foreign trade. James A. Farrell, president of the United States Steel Corporation, is chairman of the Council, and O. K. Davis is secretary.

Of \$3,563,000,000 worth of exports reported up to the end of September, about 73 per cent, the highest proportion on record, the council points out, represents goods wholly or partly manufactured. About one-fifth of these manufactured goods go to Latin America, where the United States now sells more than England, France and Germany combined, and where it is now the leading supplier to each of the 20 republics south of the Rio Grande.

American manufactured exports were valued at more than \$2,600,000,000 in nine months, and in the fiscal year just closed \$425,000,000 worth of automotive manufactures of all kinds were exported, 16 per cent more than in the preceding year. The fiscal year also showed 10 per cent increase in industrial machinery, the chief items being mining, oil, construction and metal working machinery, engines and locomotives, valued at \$210,000,000. Agricultural machinery in the fiscal year ran over \$44,000,000 and electrical machinery and apparatus to \$87,000,000.

Manufactured cotton, whose position in American export trade has been subjected to intense foreign competition recently, made a substantial advance in the past fiscal year, advancing by \$12,000,000, or 9 per cent, over the preceding year and amounting to over \$135,000,000.

The total tonnage of imports and exports combined shipped to and from the United States in 1927 amounted to 99,118,000 tons, composed of approximately 57,000,000 tons of exports and 42,000,000 tons of imports. This shows a substantial improvement over 1925, the last normal year, when the total tonnage of trade amounted to 92,800,000 tons, composed of 49,700,000 tons of exports and 43,100,000 tons of imports.

\$1,000,000 Building Program for College.

Gainesville, Ga.—Preliminary plans are being prepared by James J. Baldwin, Asheville, N. C., for constructing additional units and for alterations and enlargements of existing buildings for Brenau College. The construction program is estimated to cost \$1,000,000.



RESORT HOTEL AND SPRING HOUSE TO BE ERECTED AT OLIVER SPRINGS, TENN.



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close November 16, 1928.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., October 12, 1928.—SEALED BIDS will be opened in this office at 3 P. M. November 16, 1928, for extension and rehabilitation of the U. S. Postoffice, Corinth, Miss. Drawings and specifications, not exceeding six sets, may be obtained at this office, in the discretion of the Supervising Architect, by any satisfactory general contractor, and provided a deposit is made of \$15 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

Bids close November 7, 1928.

Sealed bids, indorsed "Bids for Engine Driven Generator, Specification No. 5642," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock A. M. November 7, 1928, and then and there publicly opened, for 150-kilowatt, engine-driven, direct-current generator, switchboard panel, accessories, wiring, piping and connections at the Naval Hospital, Norfolk (Portsmouth, Va.). Specification No. 5642 and accompanying drawing may be obtained on application to the Bureau or to the Commandant, Navy Yard, Norfolk, Va. Deposit of a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawing and specification. L. E. Gregory, Chief of Bureau, October 2, 1928.

Bids close November 19, 1928.

\$4,755,000 4½% Bonds

San Antonio, Texas.

SEALED PROPOSALS, addressed to the undersigned, will be received at this office until 10 o'clock A. M. on

NOVEMBER 19, 1928,

at which place and time they will be opened, for the purchase of \$4,755,000 Public Improvement bonds, or one or more series thereof, issued by the City of San Antonio, Texas, dated August 1, 1928, bearing 4½ per cent interest, payable semi-annually, and maturing serially, in annual installments as nearly equal as practicable, in from one to forty years, viz:

1. Sewerage Disposal	\$1,250,000
2. Street Widening and Opening	600,000
3. Street Paving and Grading	750,000
4. River Improvements	500,000
5. Constructing Bridges	150,000
6. Police and Fire Department Buildings	300,000
7. Public Parks	400,000
8. Public Library	500,000
9. Exposition Grounds Park	250,000
10. Governor's Palace Park	55,000

subject to legal approval of Messrs. Thomson, Wood & Hoffman, Attorneys, of New York City.

All proposals must be on blanks furnished by the undersigned, and accompanied by Bank Cashier's check in at least the sum of one per cent of par value of bonds bid on, payable unconditionally to C. M. Chambers, Mayor, guaranteeing completion of proposal, if accepted.

Proposals must be either

- 1st. For entire issue, to be taken and paid for immediately; or—and
- 2nd. For entire issue, to be taken and paid for in such amounts and at such times as the City Commissioners may determine, on thirty days' notice; or—and
- 3rd. For one or more separate issues to be taken and paid for immediately; or—and
- 4th. For one or more separate issues to be taken and paid for, in such amounts and at such times as the City Commissioners may determine, on thirty days' notice.

Bonds to be delivered and paid for at the City Treasury in San Antonio, Texas.

The City reserves the right to reject any and all bids.

Further information may be obtained on application from the undersigned.

FRED FRIES, City Clerk,
San Antonio, Texas.

GENERAL INFORMATION

About Proposal Advertising in Manufacturers Record

PUBLICATION DAY: Thursday.

FORMS CLOSE: 10 A. M. Tuesday.

When too late to send copy by regular mail to reach us by 10 A. M. Tuesday, forward by night letter or air mail when possible.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened or when daily insertions are necessary to meet legal requirements.

The rate is the same for both publications—35 cents a line each insertion.

Bids close November 21, 1928.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., October 17, 1928.—SEALED BIDS will be opened in this office at 3 P. M. November 21, 1928, for construction of the U. S. Post Office at Conway, Ark. Drawings and specifications, not exceeding six sets, may be obtained at this office, in the discretion of the Supervising Architect, by any satisfactory general contractor, and provided a deposit is made of \$15 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

Bids close November 27, 1928.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 764 Arlington Building, Washington, D. C., until 11 A. M. November 27, 1928, and then publicly opened, for furnishing all labor and materials and performing all work for constructing an Acute Building, Officers' Duplex Quarters and Utilities Building, including roads, walks and drainage at U. S. Veterans' Hospital, Bedford, Massachusetts. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cast stone, marble work, floor and wall tile, iron work, steel sash, steel stairs, with slate treads; slate, metal and built-up roofing, roof ventilators, metal lathing, plastering, carpentry, metal weather strips, insect screens, painting, glazing, hardware, plumbing, heating, electrical work, electric elevator and outside sewer, water, steam and electric distribution system. SEPARATE BIDS will be received for Electric Elevator, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764 Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$50, payable to the TREASURER OF THE UNITED STATES, is required as security for safe return of the drawings and specifications within ten days after date of opening bids. FRANK T. HINES, Director, October 25, 1928.

Bids close November 12, 1928.

War Department, U. S. Engineer Office, Wilmington, N. C. Sealed bids, in duplicate, will be received until 12 o'clock noon November 12, 1928, and then publicly opened, for furnishing all labor and materials and performing all work for constructing, testing and delivering two steel barges. Further information on application.

Bids close November 5, 1928.

\$215,000 Refunding Bonds

Vicksburg, Miss.

SEALED BIDS will be received by the Mayor and Aldermen of the City of Vicksburg, State of Mississippi, at the City Hall in the City of Vicksburg at 4 o'clock P. M. on the

5th DAY OF NOVEMBER, 1928, for Two Hundred and Fifteen Thousand Dollars (\$215,000 Refunding bonds of the City of Vicksburg, dated December 1, 1928, payable \$5000 December 1 in each of the years 1929 to 1933, inclusive, \$9000 on December 1 in each of the years 1934 to 1943, inclusive, \$10,000 on December 1 in each of the years 1944 to 1953, inclusive, bearing interest at the rate of a sum not greater than five per cent per annum, payable semi-annually June 1 and December 1 in each year, and being of the denomination of \$1000 each and registered as to principal only.

All bids must be unconditional, and no bid below par will be considered. Each bid shall be enclosed in a plain envelope, addressed to S. S. Patterson, City Clerk, and marked "Proposal for \$215,000 Refunding Bonds," and shall be accompanied by a certified check for an amount not less than two per cent of the amount of bonds bid for. The right to reject any and all bids is reserved.

The purchaser of the said bonds shall furnish the bonds for said issue.

The opinion of Messrs. Thomson, Wood & Hoffman, of New York City, approving the validity of said bonds shall be furnished the purchaser free of charge.

By order of the Mayor and Aldermen of the City of Vicksburg.

S. S. PATTERSON,
City Clerk.

Bids close November 13, 1928.

Virginia Highway Work

Richmond, Va.

The Commission will receive bids on:

Proj.	Length	Type
S-206-D	0.66 Mi.	Grading and Drainage.
S-206-CI	0.89 Mi.	Grading and Drainage.

Details obtainable on request.

Bids close November 19, 1928.

Street Improvements

Holly Springs, Miss.

Notice is hereby given that sealed proposals will be received by the Mayor and Board of Aldermen of Holly Springs, Mississippi, until 10 o'clock A. M. on Monday, November 19, 1928, and then publicly opened, for certain street improvements under Improvement Ordinance No. 137, as amended, Supplemental Improvement Ordinance No. 137 and Improvement Ordinance No. 138. The principal items of work are as follows:

- 5,300 Cu. Yds. Earth Excavation.
- 10,400 Sq. Yds. Concrete Street Paving.
- 5,650 Lin. Ft. Combined Curb and Gutter.

Necessary drains and incidentals. Specifications and proposal forms can be secured from the undersigned or from the main office of the Consulting Engineers on Deposit of Five Dollars (\$5.00). Plans can be secured on the payment (not deposit) of Five Dollars (\$5.00). Certified check or bidder's bond for Three Thousand Dollars (\$3000) shall accompany each proposal. The right is reserved to reject any or all bids.

CHAS. N. DEAN, Mayor.
ROBERT L. TOTEN, INC.,
Consulting Engineers,
Birmingham, Alabama.

Bids close November 27, 1928.

Bridges

Montgomery, Ala.

Sealed bids will be received by the Alabama State Bridge Corporation at the office of the State Highway Department, Montgomery, Alabama, until 10:00 A. M., November 27, 1928, and at that time publicly opened for the construction of each of the following fifteen bridges:

A Highway bridge across the Alabama River near Camden in the County of Wilcox, State of Alabama.

The length of bridge to be constructed is approximately 3100 lineal feet, and the proposed work includes:

- 1 480-ft. three-span continuous steel superstructure.
- 2 160-ft. deck truss steel spans
- 6 Reinforced concrete piers
- 2300 Lin. ft. concrete trestle.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before May 1, 1930.

Certified check for Sixteen Thousand Dollars (\$16,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Alabama River at Claiborne in the County of Monroe, State of Alabama.

The length of bridge to be constructed is approximately 7500 lineal feet, and the proposed work includes:

- 3 260-ft. through truss steel spans
- 4 Reinforced concrete piers
- 3050 Lin. ft. approach trestle.
- 3650 Lin. ft. earth approach embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before August 1, 1930.

Certified check for Seventeen Thousand Dollars (\$17,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Coosa River at Cedar Bluff in the County of Cherokee, State of Alabama.

The length of bridge to be constructed is approximately 2300 lineal feet, and the proposed work includes:

- 1 232-ft. hand operated swing span.
- 3 reinforced concrete piers.
- 1100 Lin. ft. of concrete pile trestle approach.
- 1000 Lin. ft. of earth embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and to be completed on or before October 1, 1929.

Certified check for Five Thousand Dollars (\$5,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Coosa River near Riverside in the Counties of Saint Clair and Talladega, State of Alabama.

The length of bridge to be constructed is approximately 930 lineal feet, and the proposed work includes:

- 1 232-ft. hand operated steel swing span.
- 2 200-ft. through truss steel spans.
- 8 365-ft concrete deck girder spans.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before December 1, 1929.

Certified check for Seven Thousand Dollars (\$7,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Coosa River near Childersburg in the Counties of Shelby and Talladega, State of Alabama.

The length of bridge to be constructed is approximately 840 lineal feet, and the proposed work includes:

- 3 180-ft. through truss steel spans
- 2 78-ft. steel I-beam spans
- 3 45-ft. steel I-beam spans,

All on reinforced concrete piers, bents and abutments.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before October 1, 1929.

Certified check for Six Thousand Dollars (\$6,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Tombigbee River in the County of Pickens, State of Alabama.

The length of bridge to be constructed is approximately 4200 lineal feet, and the proposed work includes:

- 1 200-ft. through truss steel span
- 2 120-ft. deck truss steel spans
- 4 reinforced concrete piers
- 1700 Lin. ft. approach trestle
- 2000 Lin. ft. earth embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before December 31, 1929.

Certified check for Eight Thousand Dollars (\$8,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Tombigbee River at Gainesville in the Counties of Greene and Sumter, State of Alabama.

The length of bridge to be constructed is approximately 4300 lineal feet, and the proposed work includes:

- 1 200-ft. through truss steel span
- 3 120-ft. deck truss steel spans
- 5 reinforced concrete piers
- 2100 Lin. ft. approach trestle
- 1650 Lin. ft. earth approach embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before December 31, 1929.

Certified check for Ten Thousand Dollars (\$10,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Tombigbee River near Epes in the Counties of Greene and Sumter, State of Alabama.

The length of bridge to be constructed is approximately 4600 lineal feet, and the proposed work includes:

- 1 160-ft. through truss steel span
- 5 reinforced concrete piers
- 2 160-ft. deck truss steel spans
- 1 120-ft. deck truss steel spans
- 4000 Lin. ft. concrete trestle.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before March 1, 1930.

Certified check for Fifteen Thousand Dollars (\$15,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Tombigbee River near Butler in the Counties of Choctaw and Marengo, State of Alabama.

The length of bridge to be constructed is approximately 13,300 lineal feet, and the proposed work includes:

- 1 500-ft. three-span continuous steel superstructure.
- 2 130-ft. deck truss steel spans.
- 6 reinforced concrete piers.
- 3460 Lin. ft. approach trestle.
- 9100 Lin. ft. earth approach embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before June 30, 1930.

Certified check for Twenty Thousand Dollars (\$20,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Tombigbee River, near Jackson, in the Counties of Clarke and Washington, State of Alabama.

The length of bridge to be constructed is

approximately one mile and the proposed work includes:

- 1 209.25-ft. vertical lift steel span
- 2 180-ft. steel spans
- 4 reinforced concrete piers
- 2850 Lin. ft. concrete pile trestle
- 2000 Lin. ft. earth approach embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before June 30, 1930.

Certified check for Twenty Thousand Dollars (\$20,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Warrior River near Eutaw in the Counties of Greene and Hale, State of Alabama.

The length of bridge to be constructed is approximately 15,000 lineal feet, and the proposed work includes:

- 1 480-ft. three-span continuous steel superstructure
- 1 160-ft. deck truss steel span
- 5 reinforced concrete piers
- 4500 Lin. ft. approach pile trestle
- 10,000 Lin. ft. earth embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before May 1, 1930.

Certified check for Sixteen Thousand Dollars (\$16,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Warrior River near Demopolis in the Counties of Greene and Marengo, State of Alabama.

The length of bridge to be constructed is approximately 10,500 lineal feet, and the proposed work includes:

- 1 480-ft. three-span continuous truss steel span
- 4 reinforced concrete piers
- 5000 Lin. ft. approach pile trestle
- 5000 Lin. ft. earth embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before June 1, 1930.

Certified check for Sixteen Thousand Dollars (\$16,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Tennessee River near Scottsboro in the County of Jackson, State of Alabama.

The length of bridge to be constructed is approximately 4000 lineal feet, and the proposed work includes:

- 1 766-ft. three-span through truss steel superstructure
- 4 200-ft. through truss steel spans
- 9 reinforced concrete piers
- 1400 Lin. ft. concrete and timber pile trestle
- 1000 Lin. ft. earth embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before April 1, 1930.

Certified check for Twenty Thousand Dollars (\$20,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Tennessee River at Guntersville in the County of Marshall, State of Alabama.

The length of bridge to be constructed is approximately 3500 lineal feet, and the proposed work includes:

- 1 766-ft. three span continuous through truss steel superstructure
- 6 78-ft. steel I-beam spans
- 10 reinforced concrete piers
- 2300 Lin. ft. concrete pile trestle approach.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before April 1, 1930.

Certified check for Seventeen Thousand Dollars (\$17,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evi-

dence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

A highway bridge across the Tennessee River at Whitesburg in the Counties of Madison and Morgan, State of Alabama.

The length of bridge to be constructed is approximately 8000 lineal feet, and the proposed work includes:

- 1 766-ft. three-span continuous through truss steel superstructure.
- 4 200-ft. through truss steel spans
- 8 reinforced concrete piers
- 1800 Lin. ft. concrete and timber pile trestle
- 4700 Lin. ft. earth embankment.

Performance of the contract shall commence within fifteen (15) days after the execution of the contract and be completed on or before June 1, 1930.

Certified check for Twenty Thousand Dollars (\$20,000.00) made payable to the President of the Alabama State Bridge Corporation must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

The specified bonus will be paid for completion in advance of the above date and the fixed liquidated damages deducted for delay in completion.

Monthly payment will be made for eighty-five (85) per cent of the construction completed each month.

Bidders must submit proposals upon the forms provided by the Corporation. Proposals must cover all labor, materials and incidentals necessary to complete a bridge ready for traffic.

Alternate bids shall be submitted on concrete and reinforcing steel items conditioned (a) on the Contractor furnishing all materials and (b) Corporation furnishing the cement and reinforcing steel.

Plans and specifications may be seen at the office of the Engineer at the State Highway Department at Montgomery, Alabama.

Index plans and specifications for a bridge may be secured from the Alabama State Bridge Corporation, Montgomery, Alabama, upon deposit of \$10.00 which amount will not be refunded unless a bona fide proposal is submitted and the plans returned on the opening date.

The right to reject any or all bids is reserved.

Envelopes containing proposals must be marked "Proposal for Bridge Work." ALABAMA STATE BRIDGE CORPORATION.

WOOLSEY FINNELL, President.

Bids close November 7, 1928.

Sealed bids, indorsed "Bids for Refrigerating Equipment, Specification No. 5735," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock A. M. November 7, 1928, and then and there publicly opened, for automatic refrigerating machine for existing refrigerator, and combined drinking fountain and cooler for electric refrigeration at the Navy Yard, Charleston, S. C. Specification No. 5735 and accompanying drawing may be obtained on application to the Bureau or to the Commandant, Navy Yard, Charleston, S. C. Deposit of a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawing and specification. L. E. Gregory, Chief of Bureau, October 8, 1928.

Bids close November 6, 1928.

Street Improvements

Leesville, S. C.

Sealed proposals will be received by the Mayor and Council of the City of Leesville at the City Hall in Leesville, S. C., until 6 o'clock P. M. November 6, 1928, for grading, draining and paving portions of Main and Church Streets and Railroad Avenue.

The work will include approximately 4000 cubic yards of excavation, 5000 sq. yards of paving (alternate bids on sheet asphalt, asphaltic concrete and plain concrete), 18,000 lineal feet of concrete integral curb and gutter and the construction of the necessary drainage work.

Each proposal must be accompanied by a certified check, payable to the City of Leesville, S. C., in an amount equal to five (5%) per cent of the bid as a guarantee that the contract will be entered into if awarded. A bond of one hundred (100%) per cent of the contract price will be required of the successful bidder.

Plans and specifications are on file at the office of the City Clerk of Leesville, S. C., and with Nisbet Wingfield Co., Inc., Augusta, Georgia.

Bidders may obtain copies of the plans and specifications from the engineers by enclosing check for Five Dollars (\$5.00), payable to Nisbet Wingfield Company, Inc. No refunds will be made for returned plans and specifications.

The right is reserved to reject any or all bids.

E. P. WEST, City Clerk,
City of Leesville, S. C.

Bids close November 5, 1928.

Paving, Sewer and Water Extensions

Burlington, N. C.

Proposals will be received by the City of Burlington, N. C., until 1.30 P. M. Monday, November 5, 1928, for paving with concrete and extending sewer and water mains on certain streets, requiring the following approximate quantities:

- 5000 sq. yds. pavement.
- 3000 ft. curb and gutter.
- 5300 ft. sewer mains.
- 3500 ft. water mains.

Separate bids will be received on the pavement and on the sewer and water extensions.

Plans and specifications may be seen at the office of the City Clerk and at the office of the Engineer after October 27, and specifications may be obtained on application after that date.

All bids must be accompanied by a certified check to the amount of 5% of the bid as evidence of good faith.

Contractors must comply with the act to regulate the practice of General Contracting as ratified by the General Assembly March 10, 1925.

The right is reserved to reject any or all bids or to award contracts which, in the opinion of the Engineer and Board of Aldermen, appear for the best interest of the city.

EARL B. HORNER, Mayor.

F. E. McPHERSON, City Clerk.

A. C. LINBERG,
Consulting Engineer,
Burlington, N. C.

Bids close December 6, 1928.

Courthouse Furniture, Etc.

De Land, Fla.

The Board of County Commissioners of Volusia County, Florida, will receive sealed bids at the Clerk's office, DeLand, Florida, until 3 o'clock P. M. December 6, A. D. 1928, for furniture, equipment and floor covering to be installed in Volusia County Courthouse. Plans and specifications of this equipment may be had of W. D. HARPER & COMPANY, Architects, Florence, S. C. Bidders' checks in the amount of 10% of the bid is required of each bidder, the County Commissioners reserving the right to reject any and all bids and readvertise.

DONE this 16th day of October A. D. 1928.

BOARD OF COUNTY COMMISSIONERS,
Volusia County, Florida.
W. P. WILKINSON, Chairman.

Attest:
SAM'L D. JORDAN, Clerk.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

LEAD, ZINC AND COPPER properties for sale in Arkansas, Oklahoma and New Mexico, possessing merit. Send for details. ELMER OWENS, Yellville, Arkansas.

WATER POWER SITE

Best in South; 20,000 HP. for manufacture of cotton, cement, metals. Write OWNER, Box 33, West Cunningham, Mass.

COAL LANDS AND MINES

FOR SALE—West Virginia coal mine, 600 acres in fee; capacity 600 tons; six-foot seams; good mining condition. Write P. O. Box 402, Fairmont, West Virginia.

CUT-OVER LAND

FOR SALE—27,000 acres cut-over land; three farms, Rio Grande Valley acreage, lake and summer resort property. Write H. M. FELLEZ, Fond du Lac, Wis.

FARM AND TIMBER LAND

FOR SALE—50,000 acres of good Florida average farming land carrying 100,000,000 feet of timber, large per cent pine. Best bargain: going at \$4.75 in fee. Good merchantable title. G. O. Denham, Bartow, Fla.

Rates, Terms and Conditions

RATES: 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made.

Rates for Special Contract:

- 100 lines 28c a line
- 300 lines 26c a line
- 500 lines or more 25c a line

TERMS: For transient advertising cash with order; check, postoffice or express money order or stamps accepted.

On special contract advertising, bills are rendered monthly covering space used each month, payable within ten days.

CONDITIONS: No patent medicine, oil or mining stock advertisements or questionable or undesirable advertisements will be accepted. The assistance of our readers in excluding undesirable advertisements is requested. No display type used.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

LAKE COUNTY—Beautiful 17 acre grove on large lake. Modern home and modern poultry buildings. All conveniences. Price \$25,000. P. B. RUGGLES, Groveland, Fla.

"TWENTY ACRES AND PLENTY"

FREE book tells truth about Florida land; monthly payments \$1.50 an acre; no interest; no taxes; sick benefit features. SYLVESTER E. WILSON, Department X, Orlando, Fla.

WHEN WINTER COMES

Fill up the gas tank, get all the family in, and head South—there's a paved road, all the way to Tampa, Florida's greatest city; living is better, in Tampa, and cheaper than most anywhere else; rents are exceptionally low; no coal bills; there are exceptional opportunities here now for the investor, and especially the small farmer. Send today for booklets and list of Groves and Farms. Tampa-West Coast Realty Co. (Inc.), Opp. Post Office, "Since Before the War," Tampa, Florida.

FARM, FRUIT AND TRUCK LANDS

GEORGIA

FOR SALE or Trade on turpentine location, 590-acre farm, well located in Tift County, Georgia, two miles of shipping point, schools and churches; 350 acres in cultivation, mostly stumped; plenty of timber and water; 5 tobacco barns, good 6-room dwelling, deep well, 7 tenant houses, good farm for general farming and stock raising. For particulars write F. L. Underwood, Ty Ty, Ga.

OWNER OF GEORGIA FARM LAND OFFERS 10,139 ACRES FOR SALE

I have 10,139 acres best farm land in South Georgia for sale. One solid tract consisting of 5369 acres, situated on public highways; railroad running through property. Land lies level; large portion in high state of cultivation. Another tract within 1½ miles (small land owner between), 3303 acres; highway now under construction for paving is one of boundary lines; same character of land. Another tract of 1467 acres within ½ mile; highway running through tract; same class of property. Entire acreage especially desirable for colonization work; manufacturing settlement or farming on large scale. No river swamp land and with little expense every acre can be put in cultivable condition. Lands owned by my family for more than thirty years. First-class proposition; strictly as represented. Price on entire acreage \$25 per acre, net. (Reference—Bradstreet Company, Augusta, Ga.). Address No. 6979, care Manufacturers Record, Baltimore, Md.

NORTH CAROLINA

If interested
FOR HOME OR FOR INVESTMENT
In the great and rapidly developing
STATE OF NORTH CAROLINA,
especially in its leading city, Charlotte, or
in a Southern Cotton Mill or Southern Mill
Stocks, write to
F. C. ABBOTT & CO.,
Realtors and Investment Bankers
Nearly thirty years in Charlotte.

GULF COAST PROPERTY

MISSISSIPPI GULF COAST. 200x400 feet; full riparian rights. Situated in midst of Edgewater Development Company's holdings about 700 feet west of Two Million Dollar Edgewater Gulf Hotel. Can be bought outright or leased for ninety-nine years. Terms very reasonable. W. E. Stewart, M. D., 402 Tribune Bldg., Terre Haute, Ind.

BUSINESS OPPORTUNITIES

HAVE CLIENT for resort or sporting proposition in Biloxi, Miss. Brokers or owners please quote prices to cover commissions to me. Address Lock Box 108, Rockford, Ill.

WANTED—A man with knowledge of the brick business, with some money, looking to the erection of a brick plant at Graham, Texas. Good shale and clay, plenty natural gas, good outlet by two railroads. Address TURNER E. CAMPE, Manager Graham Chamber of Commerce.

INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development made by specialists in locating industries.

TECHNICAL SERVICE COMPANY
Woolworth Building New York City

INDUSTRIES WANTED

REMINGTON, VIRGINIA, will offer liberal inducements to a wood-working factory or other industrial enterprises to locate in the town. THE REMINGTON & COMMUNITY CO-OPERATIVE ASSOCIATION.

DO YOU WANT TO LOCATE in a live city—1200 population. Five hundred unemployed women within a fifteen-minute distance. Cheap power. Good roads. Will invest and give you a site. CHAMBER OF COMMERCE, Ball Ground, Ga.

INDUSTRIES WANTED

WANTED—Industries by several Southern communities, Western North Carolina, Southern Virginia and Northern Georgia. Excellent locations, abundance good labor available. Cheap Hydro power—other inducements. Excellent locations for wood-working, silk, cotton, paper and canning industries. Communicate with Industrial Department, The Public Utilities Corporation, 1803 Terminal Tower Bldg., Cleveland, Ohio.

INDUSTRIAL PLANTS

FOR SALE—Paint mfg. plant, capacity 1500 gal. daily; an opportunity for the right party with some experience. Address Owner, 2921 El Dorado Blvd., Tampa, Fla.

WRITE FANTUS for factories anywhere. Wonderful values in buildings or equipped plants. Valuable industrial sites free of cost to established industries. For America's best buys, address Fantus Factory Locating Service, 139 North Clark Street, Chicago.

SALE OR LEASE—Industrial site four miles from the heart of the business section of Washington, D. C., with steam and electric railroad sidings, 6600-volt service, two communicating brick buildings, floor space of approximately 12,000 square feet. Land contains over 43,000 square feet fronting 235 feet on leading highway into Washington. Priced at about one-third the reproduction cost of buildings and land. Convenient terms. Address J. A. CULLEN, 1407 New York Ave. N. W., Washington, D. C.

FACTORY SITES

FACTORY SITES and acreage in Piedmont Section. Mill locations.
HUGHES T. REYNOLDS.
304 First National Bank Building.
Rome, Georgia.

BEST LOCATION for manufacturing plant in Alabama. Side track and plenty of acreage available to acceptable industry. Write Evergreen Manufacturing Co., Inc., Evergreen, Ala.

FOR SALE—An unusual industrial plot, with Hudson River water frontage and railroad siding. Ideal for manufacturing plant. Forty miles from New York. Write us.

BARRETT-COX ASSOCIATES,
178 Martine Avenue,
White Plains, N. Y.

LOCATION FOR A COTTON MILL

Raymond (Coweta County), Ga.
600 Acres, Town, 50 Houses and Buildings, School, Churches, Highway, 3 streams and a 50-Acre Lake; 43 miles from Atlanta, Six miles from Newnan; Railroads to Atlanta and New York, to Chattanooga, Cincinnati and Chicago, to Macon, Savannah and other points. RAYMOND PROPERTIES, P. O. Box 1443, Atlanta, Georgia.

IDEAL LOCATION for a Creosoting or any other factory or plant. Owners of a hundred-acre farm will entertain a proposition for either a donation or outright sale of a location for any kind of plant. Situated on railroad, with deep water bounding property. South Atlantic Coastal Highway divides property. Ten thousand population town three miles away, with electric current available. Forty miles from Norfolk, Va. Good school adjoins property. Address No. 6978, care of Manufacturers Record, Baltimore.

RICHMOND, VA.—Home of Fifth District Federal Reserve Bank. Great Tidewater Basin of Virginia. Manufacturing center; products distributed by 5 trunk-line railroads North, South and West. Steamers to New York, with New England connections. Local transportation covers Richmond and 10 to 20 miles suburban. Labor plentiful and reasonable. We can supply factories and warehouses with or without trackage or sites for either, large or small. Richmond Trust Co., Real Estate Department, P. O. Box 1555.

PATENT ATTORNEYS

FREE "PATENT PARTICULARS"
Sterling Buck, over 21 years Registered Patent Attorney. Prompt and thorough services. Suite M, 629 F. Washington, D. C.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St., N. W., Washington, D. C.

PATENTS--TRADEMARKS--COPYRIGHTS
Charlotte office convenient to South. PAUL B. EATON, Registered Patent Attorney, 218 Johnston Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.

SELLING AGENCY WANTED

A WELL-ESTABLISHED cotton converting concern is desirous of making connections with mills or bleacheries who manufacture print cloth sheetings or shirtings, with an objective to act as selling agents for the product in the finished state. Address No. 6984, care of Manufacturers Record, Baltimore, Md.

AGENCIES WANTED

WANTED—Good lines to sell to the oil supply, hardware jobbers and plumbers supply companies in the South and Southwest by a well-acquainted, aggressive salesman who has been traveling the territory mentioned for the past fifteen years. Address No. 6985, care Manufacturers Record.

SITUATIONS WANTED

WANTED—A BETTER JOB

Age 27, engineering graduate, accounting student, seeks a manufacturing job in the South. Now employed, but wants a larger future. Address No. 6982, care Manufacturers Record, Baltimore, Md.

POSITION WANTED—By young man with a year's experience engineering and machine design; 3 years sales engineering, 3 years purchasing, all with manufacturer machinery. Best of references. Southern location. H. E. E., Box 315, Summit, Miss.

POSITION WANTED—By experienced man, now selling to cotton mills in N. C., S. C., Ga. and Ala. Can show you I am a producer if you have what my mill friends want. Address No. 6983, care of Manufacturers Record, Baltimore, Md.

MEN WANTED

LARGE MANUFACTURER of Electrical Materials is desirous of establishing District Sales Managers throughout the country. Men thoroughly familiar with the central station industry and engineering training preferred. No. 6981, care Manufacturers Record, Baltimore Md., stating experience, age, present occupation, salary desired, reference, etc.

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation. American Security Credit Company, General Offices, St. Louis, Mo.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established nineteen years. Send only name and address for details.

R. W. BIXBY, INC.,
103 Downtown Bldg. Buffalo, New York.

CONTRACT WORK WANTED

PLATE WORKING MACHINERY—a complete line.
General and Special Machinery.
Castings: Grey Iron and Semi-Steel, any size up to 40,000 lbs.
Brass, Bronze and Aluminum to 10,000 lbs.
COVINGTON MACHINE COMPANY, INC.,
Engineers Founders Machinists
Covington, Va.

The new way to handle HIGHWAY REINFORCEMENT



ORDER your reinforcing mats all completed according to your specifications, at the nearby Concrete Steel Company office. The mats are delivered ready for use. Every joint is electrically welded. The mats are stronger and stiffer, easier and quicker to handle. And you don't have to bother with a hand-tying gang on the job. Put the gang on useful constructive work. Then lay these rigid, electrically welded Bar-



mats accurately in place with these Havemeyer Installing Devices. It makes a fast job. You pour the full depth of the slab at once. By eliminating the handmaking of mats and installing Bar-mats this easy, mechanical way, you save money and have a fine finished road more quickly.

Electrically  *Welded*
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St. Paul, Syracuse, Washington, Wichita

FIELD TESTED- *not ONCE but* 89 Times!

EVERY Thew machine must pass through 89 separate field tests before it can be shipped. These tests are made by highly skilled operators. Tested not once but 89 times! And no Thew Shovel can ever be shipped until it passes every test 100%.

This unusual testing is just one of many reasons Thew owners are satisfied—and their satisfaction is shown by a 62% sales increase in the first six months of 1928.

THE THEW SHOVEL CO., Lorain, Ohio
SHOVELS—CRANES—DRAGLINES—BACKDIGGERS
Gasoline, Steam or Electric Powered



